35 40 45

Ala Ser Phe Cys Phe Gly Cys Arg Glu Trp Phe Ile His Thr Leu Ile 50 55 60

Pro Ser Pro Pro Leu Val Asp Gly Gly Leu Ala Phe Ser Ile Pro Val 65 70 75 80

Phe Trp Cys Leu Pro Leu Ser Ala Thr Leu Asn His Leu Ser Trp Ser 85 90 95

Cys Cys Val Met Gly Thr Cys Leu 100

<210> 2624

<211> 19

<212> PRT

<213> Homo sapiens

<400> 2624

Val Cys Leu Leu Cys Ile Pro Gly Ala Gln Asn Arg Ala Trp His Ile 1 5 10 15

Val Gly Ala

<210> 2625

<211> 83

<212> PRT

<213> Homo sapiens

<400> 2625

Met Ile Phe Leu Arg Lys Ala Ile Leu Leu Gln Leu Phe Pro Lys Ser 1 5 10 15

Cys Ser Gly Asn Gly Trp Ser Ser Tyr Ser Gln Trp Arg Gly Glu Gln 20 25 30

Val Gly Leu Gly Ile Tyr Leu Phe Arg Leu Leu Val Gly Trp Ser Trp
35 40 45

Gly Ile Glu Ile Asn Gln Glu Asp Val Ser Thr Lys Pro Ala Val Ser 50 55 60

Gln Leu Arg Glu Cys Leu Gly Ser Gln Glu Thr Trp Thr Gly Gly Val 65 70 75 80

Trp Val Asp

<210> 2626

<211> 104

<212> PRT

<213> Homo sapiens

Leu Trp Ala Ala Leu Phe Leu Val Glu Leu Leu Gln Glu Val Pro Ile 20 25 30

Met Thr Cys Ser Asn Ala Asn Thr Pro Ser Val Asn Thr Gly Tyr Phe 35 40 45

Lys Leu Ser Ser Val Ala Thr Thr Leu Arg Gln Gln Gln Leu Val Leu 50 55 60

Glu Ile Ser Leu Met Ser Val Pro Pro Gly Cys Gly Pro Leu Leu Pro 65 70 75 80

Val Leu Ile Pro Val Ala Ser Phe Cys Cys Ile Ile Thr Ile Trp Leu 85 90 95

Leu Ile Leu Met Phe Glu Lys Asp 100

<210> 2627

<211> 59

<212> PRT

<213> Homo sapiens

<400> 2627

Leu Leu Gly Thr Trp Leu Cys Pro Gln Leu Pro Pro Gly Leu Gly Ala 1 5 10 15

His His Ala Pro Ser Ser Phe Ser Ser Tyr Leu Cys Pro Val Ser Pro

Ser Ile Arg Leu Ser Asp Gly Thr Leu Trp Glu Arg Leu Trp Pro Trp 35 40 45

Ser Gly Gly Arg Glu Gln Gly Gly Arg His Lys 50 55

<210> 2628

<211> 36

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2628

Met Gly Val Phe Phe Ile Leu Arg Xaa Leu Thr Ser Gln Cys Phe Leu 1 5 10 15

Ser Trp Phe Leu Gly Phe Val Ser Ala Glu Ser Phe Glu Gln Trp Ser 20 25 30

Ile Ser Gly Ser
35

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<210> 2629
<211> 29
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2629

Met Cys Cys His Ile Xaa Gln Ile Ala Thr Val Leu Leu Ser Leu 1 5 10 15

Cys Trp Leu Cys Ala Thr Leu Met Val Pro Arg Asn Arg 20 25

<210> 2630 <211> 51 <212> PRT <213> Homo sapiens

(215) Homo Dap10.

<400> 2630

Met Pro Trp Phe Val Pro Leu Val Ser Trp Glu Glu Leu Ala Pro Ala 1 5 10 15

Gln Leu Ser Cys His Trp Pro Phe Arg Val Gly Leu Gly Pro Glu Cys 20 25 30

Leu Leu Val Ala Ser His Gly Gly Leu Met Ala Gln Pro Ser Pro Lys 35 40 45

Arg Ala Gln 50

<210> 2631 <211> 27 <212> PRT

<213> Homo sapiens

<400> 2631

Met Ala Leu Ala Gly Phe Phe Leu Pro Trp Thr His Cys Cys Arg Leu
1 5 10 15

Ser Leu Lys Phe Leu Cys Gly Val Thr Arg Ser 20 25

<210> 2632 <211> 15 <212> PRT

```
<213> Homo sapiens
<400> 2632
Met Leu Ile Val Leu Leu Ile Asn Leu Ser Ser Glu Pro Ser Cys
                5
<210> 2633
<211> 3
<212> PRT
<213> Homo sapiens
<400> 2633
Met Ser Thr
 1
<210> 2634
<211> 32
<212> PRT
<213> Homo sapiens
<400> 2634
Met Tyr Val Asn Leu Asn Thr Val His Asp Ala Leu Leu Tyr Leu Leu
Leu Leu Leu Ile Met Asp Lys Met Trp Met Gly Ala Glu Arg Glu
<210> 2635
<211> 39
<212> PRT
<213> Homo sapiens
<400> 2635
Met Phe Gln Leu Cys Leu Glu Ile Phe Gln Phe Phe Val Ser Val Phe
Ile Ser Phe Leu Glu Ser Leu Ala Glu Phe Gln Glu Thr Val Ala His
             20
Leu Leu Val Met Lys Cys Phe
         35
 <210> 2636
 <211> 126
 <212> PRT
 <213> Homo sapiens
 Met Glu Arg Leu Gly Val Leu Trp Thr Leu Leu Val Ser Arg Trp Phe
```

Ile Cys Leu Phe Val Asp Ile Leu Pro Val Glu Thr Val Leu Arg Ile 20 25 30

Trp Asp Cys Leu Phe Asn Glu Gly Ser Lys Ile Ile Phe Arg Val Ala 35 40 45

Leu Thr Leu Ile Lys Gln His Gln Glu Leu Ile Leu Glu Ala Thr Ser 50 55 60

Val Pro Asp Ile Cys Asp Lys Phe Lys Gln Ile Thr Lys Gly Ser Phe 65 70 75 80

Val Met Glu Cys His Thr Phe Met Gln Val Cys Gly Ala Ala Arg Gly
85 90 95

Ser Val Pro Ser Gln Gly Ala Pro Pro His Leu Gln Pro Gly Gly Cys 100 105 110

Ser Asp His Pro Glu Gly Ala Gln Asp Gly His Gln Trp Ala 115 120 125

<210> 2637

<211> 35

<212> PRT

<213> Homo sapiens

<400> 2637

Met Lys Leu Ser Cys Cys Phe Phe Gly Ala Leu Glu Trp Thr Phe Leu

1 10 15

Ala Ala Val Thr Leu Gly Pro Leu Pro Ser Arg Val Leu Leu Cys His

Arg Gly Cys

<210> 2638

<211> 31

<212> PRT

<213> Homo sapiens

<400> 2638

Met Leu Cys Val Leu Ile Val His Cys Phe Leu Phe Leu Asn Ser 1 5 10 15

Leu Ala Leu Tyr Gly Cys Pro Thr Val Val Tyr Pro Leu Ala Ser 20 25 30

<210> 2639

<211> 15

<212> PRT

<213> Homo sapiens

<400> 2639

Met Asn Ser Gly Gly Ser Gly Trp Cys Gly Pro Ser Ser Ser 1 5 10 15

<210> 2640

<211> 32

<212> PRT

<213> Homo sapiens

<400> 2640

Met Leu Ser Leu Ala Leu Leu Trp Pro Ile Phe Ile Leu Phe Thr Val 1 5 10 15

Gln Cys His Leu Phe Gly Asn Thr Gln His Gln Arg Val Leu Pro Asn 20 25 30

<210> 2641

<211> 32

<212> PRT

<213> Homo sapiens

<400> 2641

Met Leu Ser Leu Ala Leu Leu Trp Pro Ile Phe Ile Leu Phe Thr Val

Gln Cys His Leu Phe Gly Asn Thr Gln His Gln Arg Val Leu Pro Asn 20 25 30

<210> 2642

<211> 46

<212> PRT

<213> Homo sapiens

<400> 2642

Met Asn Phe Phe Leu Gly Leu Trp Leu Leu Tyr Ile Leu Tyr Ile Leu 1 5 10 15

Arg Ile Leu Tyr Thr Ile Leu Ile Tyr Cys Asn Thr Ala Val Phe Asp 20 25 30

Asn Leu Asp Ser Ile Trp Tyr Met Asn Phe Cys Ile His Tyr 35 40 45

<210> 2643

<211> 66

<212> PRT

<213> Homo sapiens

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<220>
<221> SITE
<222> (61)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 2643
Met Lys Arg Thr Leu Leu Ser Ser Val Ile Cys Leu Ser Ala Ser Pro
Ala Gln Gly Gln Ala Pro Trp Gln Cys Pro Ala Val Thr Gly Asp Ser
Ala Glu Val Thr Tyr Pro Glu Lys Pro Leu His Gly Leu Ser Arg Arg
Glu Lys Thr Ala Leu Pro Gly Pro Trp Phe Gly Leu Xaa Arg Gly Lys
     50
Gly Pro
 65
<210> 2644
<211> 38
<212> PRT
<213> Homo sapiens
<400> 2644
Met Ile Leu Ser Val Leu Arg Asn Thr Gly Leu Cys Thr Ser Leu Phe
Met Gly Leu Trp Ile Leu Phe Ile Leu Arg Pro Val Tyr Asn Cys Phe
Leu Pro Lys Gly Ile Val
         35
<210> 2645
<211> 57
<212> PRT
<213> Homo sapiens
 <400> 2645
Met Gly Leu Leu Tyr Met Val Leu Leu Lys Ser Ile Val Phe Phe Ser
Gly Val Ser Glu Glu Leu Lys Ala Tyr Gly Val Gly Leu Gln Thr Val
              20
 Ile Glu Phe Leu Gln Asn Thr Arg Phe Trp Ala Trp Arg Trp Ile Ser
 Gln Ala Leu Leu Gly Leu Ala Leu Lys
```

<210> 2646

50

```
<211> 55
<212> PRT
<213> Homo sapiens
<400> 2646
Met Glu Ser Leu Gly Pro Asp Ile Trp Leu Ile Ser Gly Ile Ala Ser
Ser Pro Ser Phe Leu His Val Leu Val Val Val Val Gly Glu Cys
Gly Trp Gly Met Ser Trp Leu Met Pro Ala Lys Ile Ser Ser His Pro
                             40
Pro Cys Leu Ser Ser Leu Phe
<210> 2647
<211> 27
<212> PRT
<213> Homo sapiens
<400> 2647
Met Gly Ala Leu Val Glu Leu Leu Tyr Ile Phe Pro Phe Leu Leu Pro
Ser Phe Leu Ser Glu Lys Leu Leu Glu Lys Lys
<210> 2648
<211> 36
<212> PRT
<213> Homo sapiens
<400> 2648
Met Pro Ala Gly Val Gly Trp Trp Val Cys Leu His Val Arg Val Cys
Leu Gly Ser Phe Lys Gly Glu Arg Gly Thr His His His Ala Gly Ser
 Ala Leu Lys Arg
         35
 <210> 2649
 <211> 34
 <212> PRT
 <213> Homo sapiens
 <400> 2649
 Met Leu Cys Leu Ile Ala Ile Leu Leu Tyr Val Leu Val Gln Tyr Leu
 Val Asn Pro Gly Val Leu Arg Thr Asp Pro Arg Tyr Glu Ala Ala Pro
```

20

25

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Gly Pro
```

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<210> 2650
<211> 45
<212> PRT
<213> Homo sapiens
<400> 2650
Met Cys Ile Leu Cys Tyr Thr Gln Gly Pro Lys Phe Leu Gln Leu Phe
Ile His Ala Ile Val Leu Leu Phe Ala Glu Met Glu Ile Ile Tyr Thr
Glu Leu Gln Ile Pro Glu Met Phe His Leu Tyr Leu Ile
                              40
<210> 2651
<211> 23
<212> PRT
<213> Homo sapiens
<400> 2651
Cys Leu Gln Trp Phe Val Pro Leu Val Pro Gln Gln Ile Pro Glu Leu
                                      10
Ile Leu Met Thr Ile Trp Lys
             20
 <210> 2652
 <211> 123
 <212> PRT
 <213> Homo sapiens
 <400> 2652
 Met Val Trp Gln Pro Phe Phe Tyr Leu Phe Asn Gln Glu Asp Ala Gly
 Glu Leu Cys Cys Leu Ser Cys Trp Leu Val Ala Ala Leu Cys Pro Gly
                                  25
 Val Cys Met Trp Val Tyr Leu Glu Leu Leu Ser Leu Pro Ser His Cys
```

Lys Leu His Pro Asp Glu Thr Ala Val Val Leu Gly Leu Phe His Leu

Ser Leu Pro Val Pro Ala Ser Ser Trp Leu Ser Cys Ala Trp Asp Met

Gly Leu Pro Ile Cys Val Phe Ser Lys Ser Gly Ala Asp Gln Glu His

Thr Lys Val Trp Ser Cys Ile Ile Thr Asn Ile His Ser Ser Gly Thr 100 105 110

Phe Leu Arg Tyr Ile Tyr Lys Ser Phe Gln Gln 115 120

<210> 2653

<211> 123

<212> PRT

<213> Homo sapiens

<400> 2653

Met Val Trp Gln Pro Phe Phe Tyr Leu Phe Asn Gln Glu Asp Ala Gly
1 5 10 15

Glu Leu Cys Cys Leu Ser Cys Trp Leu Val Ala Ala Leu Cys Pro Gly
20 25 30

Val Cys Met Trp Val Tyr Leu Glu Leu Ser Leu Pro Ser His Cys
40 45

Lys Leu His Pro Asp Glu Thr Ala Val Val Leu Gly Leu Phe His Leu
50 60

Ser Leu Pro Val Pro Ala Ser Ser Trp Leu Ser Cys Ala Trp Asp Met 65 70 75 80

Gly Leu Pro Ile Cys Val Phe Ser Lys Ser Gly Ala Asp Gln Glu His
85 90 95

Thr Lys Val Trp Ser Cys Ile Ile Thr Asn Ile His Ser Ser Gly Thr 100 105 110

Phe Leu Arg Tyr Ile Tyr Lys Ser Phe Gln Gln 115 120

<210> 2654

<211> 87

<212> PRT

<213> Homo sapiens

<400> 2654

Met Leu Leu Ala Asn Leu Arg His Gly Gly Thr Val Asp Glu Tyr Leu
1 5 10 15

Gln Asp Gln Leu Ile Val Phe Met Ala Leu Ala Asn Gly Val Ser Arg 20 25 30

Ile Lys Thr Gly Pro Val Thr Leu His Thr Gln Thr Ala Ile His Phe

Ala Glu Gln Ile Ala Lys Ala Lys Phe Ile Val Lys Lys Ser Glu Asp 50 55 60

Glu Glu Asp Ala Ala Lys Asp Thr Tyr Ile Ile Glu Cys Gln Gly Ile 65 70 75 80

Gly Met Thr Asn Pro Asn Leu 85

<210> 2655 <211> 31 <212> PRT

<213> Homo sapiens

<400> 2655

Met Leu Val Phe Val Leu Leu Trp Ile Ser His Leu Phe Ser Gly Arg
1 5 10 15

Ser Glu His Cys Ser Leu Val Gln Ser Ser Tyr Phe Pro Ser Ser 20 25 30

<210> 2656 <211> 41

<212> PRT

<213> Homo sapiens

<400> 2656

Met Ala Ala Asn Ala Asn Ile Leu Trp Asn Ser Ser Lys Ser Thr Arg

1 5 10 15

Asp Pro Gly Trp Phe Phe Val Leu Phe Ser Leu Phe Phe Pro Pro Ser 20 25 30

Pro Glu Ser Ala Gly Met Glu Gly Gly
35 40

<210> 2657

<211> 35

<212> PRT

<213> Homo sapiens

<400> 2657

Met Thr Ile Ile Cys Leu Leu Phe Leu Thr Leu Leu Leu Leu Phe 1 5 10 15

Lys Gly Ile Val Gln Ser Ser Ile Leu Tyr Leu Trp Gln Gln Val Lys 20 25 30

Val Ser Arg 35

<210> 2658

<211> 17

<212> PRT

<213> Homo sapiens

<400> 2658

Leu Leu Cys Val Leu Ala Gly Leu Thr Leu Leu His His Cys Gln Leu

1 5 10 15

Ala

```
<210> 2659
<211> 58
<212> PRT
<213> Homo sapiens
<400> 2659
Met Gln Gln Lys Glu Pro Trp Ala Trp Ser Met Gln Asn Trp Phe Leu
Leu Gln Leu Leu Leu Val Gly Ser Gly Arg Lys His Ile Glu Phe
Met Ile Met Val Asn Leu Trp Arg Glu Arg Gly Asp Gln Asp Glu Gly
Ala Ser Arg Arg Ser Cys Ser Ser Val His
                         55
<210> 2660
<211> 19
<212> PRT
<213> Homo sapiens
<400> 2660
Lys Phe Trp Phe Ala Phe Glu Leu Phe Leu Phe Met Trp Leu Leu Ile
Ile Ser Ser
<210> 2661
<211> 32
<212> PRT
<213> Homo sapiens
<400> 2661
Met Val Leu His Phe Leu Asp Thr Ile Leu Ile Phe Leu Ile Pro Pro
                                     10
                 5
Pro Thr Phe Gln Ile Ala Ser Leu Met Pro Gln Arg Leu Leu Cys Pro
                                 25
             20
```

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<210> 2662
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<211> 65

<212> PRT

<213> Homo sapiens

<212> PRT

<213> Homo sapiens

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<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 2662
Met Val Pro Leu Leu Phe Leu Pro Leu Asp Ser Trp Leu Trp Arg Glu
                                      10
Lys Lys Tyr His Leu Leu Asp Ala Asp Ser Glu Xaa Ile Tyr Ser Pro
Leu Glu Asn Ser Ala Leu Pro Ala Ser Xaa Cys His Leu Ala Gly Ala
Ile Thr Glu Ser Ser Lys Gly His Pro Ile Ile Leu Leu Gly Gln Leu
                          55
Leu
 65
<210> 2663
<211> 18
<212> PRT
<213> Homo sapiens
<400> 2663
Met Glu Val Phe Leu Tyr Leu Gly Val Val Gly Phe Trp His Ile Gly
  1
Ile Ser
<210> 2664
 <211> 30
 <212> PRT
 <213> Homo sapiens
 <400> 2664
Met Asn Phe Gln Val Trp Gly Thr Gly Gln Cys Thr Phe Leu Ser Leu
 Phe Ile Leu Leu Phe Leu Lys Ile Cys Asn Thr Tyr Gln Arg
              20
 <210> 2665
 <211> 32
```

<400> 2665 Met Ile Ser Arg Gly Ile Thr Ile Tyr Leu Thr Val Leu Leu Thr Tyr 1 5 10 15

Thr Val Val Leu Phe Tyr Leu Phe Lys Ser Gly Phe Ser Ala Phe His 20 25 30

<210> 2666

<211> 32

<212> PRT

<213> Homo sapiens

<400> 2666

Met Ala Leu Gln Ala Phe Ser Ser Leu Leu Leu His Ile Leu Ser Thr 1 5 10 15

Ser Thr His Tyr Pro Val Pro Lys Pro Leu Pro His Phe Gln Ala Leu 20 25 30

<210> 2667

<211> 37

<212> PRT

<213> Homo sapiens

<400> 2667

Met Val Ser Val Ser Arg Gln Thr Leu Val Thr Phe Ser Leu Val Tyr
1 5 10 15

Val Pro Phe Leu Leu His Ile Phe Gly Ser Lys Ser Tyr Trp Leu 20 25 30

Asn Gln Gln Gly Leu 35

<210> 2668

<211> 36

<212> PRT

<213> Homo sapiens

<400> 2668

Met Pro Gly Lys Leu Asn Pro Cys Leu Leu Trp Leu Leu Ile Leu Met
1 5 10 15

Leu Phe Lys Lys Cys Lys Lys Ala Ser Leu Val Ser Lys Arg Ser Trp

Ile Tyr Ile Ala

35

```
<210> 2669
<211> 25
<212> PRT
<213> Homo sapiens
<400> 2669
Met Lys Lys Arg Leu Ser Pro Leu Ser Trp Ala Arg Cys Cys Leu Cys
Phe Trp Leu Gln Val Gly Thr Thr Asn
<210> 2670
<211> 17
<212> PRT
<213> Homo sapiens
<400> 2670
Met Leu Ser Pro Gly Arg Cys Phe Ala Ile Trp Ser Leu Phe Leu Cys
Ser
<210> 2671
<211> 65
<212> PRT
<213> Homo sapiens
<400> 2671
Met Pro Phe Trp Ile Leu Pro His Val Asp Cys Leu Cys Val Cys Met
Phe Gly Val Arg Met Cys Glu Thr Leu Leu Trp Phe Trp Glu Ser Glu
Leu Tyr Arg Thr Val Tyr Lys Met Ser Leu Pro His His Pro Tyr Ser
Ala Leu Leu Thr Leu Phe Phe Pro Pro Ser Ser His Ser His Ser Ser
Phe
 65
<210> 2672
<211> 9
<212> PRT
<213> Homo sapiens
<400> 2672
Met Phe Met Met Ser Val Tyr Ile Leu
```

1 5

<210> 2673

<211> 41

<212> PRT

<213> Homo sapiens

<400> 2673

Met Ser Met Cys Lys Val Arg Arg Gly Ser Leu Asn Tyr Leu Leu 1 5 10 15

Phe Trp Leu Thr Ser Pro Ile Phe Lys Thr Leu Ser Asn Ser Gln Asn 20 25 30

Leu Leu Met Arg His Val Val Leu Asn 35 40

<210> 2674

<211> 66

<212> PRT

<213> Homo sapiens

<400> 2674

Trp Leu Arg Phe Trp Cys Val Phe Ser Ser Cys Ser Gln Leu Gly Leu 1 5 10 15

Gly Leu Pro Lys Arg Trp Ile Ser Val Ser Thr Lys Ile Gln Gln Ile 20 25 30

Ile Thr Val Ser Pro Phe Asn Pro Phe Arg Asp Lys Val Arg Ile Ile 35 40 45

Tyr Asn Gly Thr Leu Ala Leu Gln Gly Leu Phe Thr Trp Tyr Leu Ser 50 55 60

Tyr Tyr 65

<210> 2675

<211> 39

<212> PRT

<213> Homo sapiens

<400> 2675

Met Gly Ala Ser Gln Cys Pro Phe Ala Ala Ala Leu Arg Pro Leu His 1 5 10 15

Phe Leu Leu Trp Val Ala Ala Leu Leu Gly Leu Gln Gln Pro Leu Gln 20 25 30

Arg Leu Gln Leu Arg Asn Ala

35

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<210> 2676
<211> 35
<212> PRT
<213> Homo sapiens
<400> 2676
Met Ser Ile Gln Ile Ile Cys Cys Leu Trp Phe Phe Leu Tyr Leu Ile
                                     10
Thr Cys Gln Lys Pro Ser Leu Pro Leu Asp Phe Phe Ile Leu Pro Ser
                                 25
Ser Glu Val
         35
<210> 2677
<211> 30
<212> PRT
<213> Homo sapiens
<400> 2677
Met Trp Gln Ile Ala Met Ile Thr Leu Trp Ser Leu Leu Val Ser Gly
                                      10
Asn His Gln Leu Glu Leu Arg Met Leu Asp Thr Val Pro Arg
                                 25
<210> 2678
<211> 39
<212> PRT
<213> Homo sapiens
<400> 2678
Met Phe Gln Asp Ile Leu Ala Leu Cys Leu Trp Leu Leu Pro Gly Val
Trp His His Ser Val Val Thr Tyr Asn His Cys Leu Gly Thr His Arg
Val Asn Cys Leu Ser Asp Lys
         35
<210> 2679
<211> 33
<212> PRT
<213> Homo sapiens
<400> 2679
Met Asp Tyr Phe Leu Leu Ala Arg Ala Asp Pro Asn Ala Leu Pro Trp
                                     10
Glu Pro Ala Glu Phe Cys Pro Val Leu Leu Leu Ala Val Thr Gly Gln
             20
                                 25
```

His

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<210> 2680
<211> 3
<212> PRT
<213> Homo sapiens
<400> 2680
Met Cys Ala
 1
<210> 2681
<211> 33
<212> PRT
<213> Homo sapiens
<400> 2681
Met Ile Trp Ser Ile Val Thr Cys Trp Ile Cys Val Cys Thr Gly Val
Phe Met Gln Gly Arg Leu Asn Ser Gln Val Arg Gly Glu Ser Glu Pro
His
<210> 2682
<211> 34
<212> PRT
<213> Homo sapiens
<400> 2682
Met Thr Val Ser Phe Val Met Arg Phe Leu Ala Leu Ile Ser Asn Ser
Phe Phe Leu Pro Leu Ser Leu Gly Ala Thr Pro Asp Pro Cys Gln Val
Phe Leu
<210> 2683
<211> 33
<212> PRT
<213> Homo sapiens
<400> 2683
Met Ser Ala Ser Ile Leu Cys Ser Phe Val His Ser Val Phe Phe Ile
                  5
  1
Ser Gly Cys Phe Ser Val Val Phe Arg Lys Met Ile Ile Thr Leu Phe
                                  25
```

Met

<210> 2684

<400> 2685

20

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<211> 180
<212> PRT
<213> Homo sapiens
<400> 2684
Met His Gln Cys Glu Ile Trp Arg Glu Leu Phe Ser Pro Leu His Ala
Leu Asn Phe Gly Ile Gly Gly Asp Gly Thr Gln His Val Leu Trp Arg
Leu Glu Asn Gly Glu Leu Glu His Ile Arg Pro Lys Ile Val Val
Trp Val Gly Thr Asn Asn His Gly His Thr Ala Glu Gln Val Thr Gly
Gly Ile Lys Ala Ile Val Gln Leu Val Asn Glu Arg Gln Pro Gln Ala
Arg Val Val Leu Gly Leu Leu Pro Arg Gly Gln His Pro Asn Pro
Leu Arg Glu Lys Asn Arg Gln Val Asn Glu Leu Val Arg Ala Ala Leu
                                105
Ala Gly His Pro Arg Ala His Phe Leu Asp Ala Asp Pro Gly Phe Val
                            120
His Ser Asp Gly Thr Ile Ser His His Asp Met Tyr Asp Tyr Leu His
Leu Ser Arg Leu Gly Tyr Thr Pro Val Cys Arg Ala Leu His Ser Leu
Leu Leu Arg Leu Leu Ala Gln Asp Gln Gly Gln Gly Ala Pro Leu Leu
                                    170
Glu Pro Ala Pro
            180
<210> 2685
<211> 35
<212> PRT
<213> Homo sapiens
```

Met Lys Met Asn Lys Leu Phe Trp Ile Arg Ile Leu Lys Leu Leu Leu

Gln Ala Leu Ser Gln Cys Lys Leu Leu Ile Lys Gly Lys Leu Gln Cys

25

Pro Arg Ile

```
35
<210> 2686
<211> 39
<212> PRT
<213> Homo sapiens
<400> 2686
Met Ala Met Gly His Leu Val Phe Ile Ser Gly Ile Ile Gln Leu Val
Lys Gly Met Tyr Leu Ser Ala Trp Tyr Pro Leu Gln Lys Ser Trp Asn
                                  25
Leu Thr Trp His Asn Lys Pro
         35
<210> 2687
<211> 5
<212> PRT
<213> Homo sapiens
<400> 2687
Met Trp Thr Cys Lys
  1
<210> 2688
<211> 39
<212> PRT
<213> Homo sapiens
<400> 2688
Met Phe Arg Arg Gly Phe Gly Ser Phe Cys Phe Cys Phe Leu Lys His
Val Phe His Ser His Leu Gly Ile Leu Glu Ala Gly Gln Leu Ala Gly
Phe Leu Gly Cys Arg Glu Thr
         35
<210> 2689
<211> 31
 <212> PRT
 <213> Homo sapiens
 <400> 2689
Met Pro Cys Pro Phe Ala His Leu Val Leu Leu Val Val Thr Ser Leu
Val Thr Gly Lys Val Ser Lys Asp Ile Gly Val Glu His Pro Gly
              20
```

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<210> 2690
<211> 35
<212> PRT
<213> Homo sapiens
<400> 2690
Met Val Lys Leu Val Lys Leu Thr Phe Ile Ile Ser Pro Leu Ile
Lys Ser Ser Asp Ser Gly Ile Thr Ser Leu Ser Cys Ser Tyr Gln Arg
                                                      30
                                 25
Ala Ile Phe
         35
<210> 2691
<211> 17
<212> PRT
<213> Homo sapiens
<400> 2691
Met Gln Lys Leu Lys Gly Gly Ile Ser Val Phe Leu Ala Phe Leu Leu
                  5
Met
<210> 2692
<211> 37
 <212> PRT
 <213> Homo sapiens
 <400> 2692
Met Ile Leu Lys Gln Gly Leu Ile Cys Thr Trp Gln Val Leu Leu
Ala Ser Ala Leu Glu Met Leu Val Phe Ile Cys Ala Met Glu Cys Leu
                                                       30
                                  25
 Thr Gln Phe Gln Val
          35
 <210> 2693
 <211> 53
 <212> PRT
 <213> Homo sapiens
 <400> 2693
 Met Tyr Phe Phe Lys Ile Ser Ile Leu Leu Ser Leu Tyr Asn Ile Ser
 Ile Leu Leu Cys Met Tyr Lys Leu Phe Asn Met Lys Phe Ala Glu Tyr
```

20 25 30

Ser Thr Ser Ser Lys Leu Tyr Asp Met Gly Gly Thr Glu Val Trp Gly 35 40 45

Tyr Leu Val Pro Val 50

<210> 2694

<211> 31

<212> PRT

<213> Homo sapiens

<400> 2694

Met Thr Glu Ser Leu Leu Tyr Leu Gln Leu Ile Leu Leu Trp Gly Ile 1 5 10 15

Ser Glu Ile Pro Ser Ser Asn Thr Glu Met Tyr Arg Lys Cys Pro 20 25 30

<210> 2695

<211> 16

<212> PRT

<213> Homo sapiens

<400> 2695

Met Gln Lys Gly Arg Ala Val Cys Leu Ser Pro Asp Leu Ala His Gly 1 5 10 15

<210> 2696

<211> 16

<212> PRT

<213> Homo sapiens

<400> 2696

Met Gln Lys Gly Arg Ala Val Cys Leu Ser Pro Asp Leu Ala His Gly
1 5 10 15

<210> 2697

<211> 61

<212> PRT

<213> Homo sapiens

<400> 2697

Met Arg Val Leu Ile Leu Asn Val Ser Met Phe Leu Arg Ser Leu Ala

1 5 10 15

Tyr Ile Leu Trp Cys Ser His Trp Lys Trp Lys Asn Gly Ile Ile Tyr

Ile Ile Tyr Ile Asn Ile Tyr Tyr Thr Tyr Ser Pro Tyr Phe Ile Ser

Val Thr Ile Pro Ile Glu Phe Asp Lys Asn Cys Tyr Asp

<210> 2698

<211> 5

<212> PRT

<213> Homo sapiens

<400> 2698

Met His Ile Ile Gln

1

<210> 2699

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2699

Met His Phe Leu Phe Gly Tyr Tyr Val Phe Ser Leu Thr Ser Ala Ser

Pro Ala Leu Trp Ala Ala Ala Ser Thr Cys Ser Ser Asp Leu Asp Xaa

Pro Cys Trp Val Leu Val His Leu Leu Ile Trp Cys Phe Val Cys His

Gln Tyr Leu His Cys Ser Trp Trp Asp Val Ser His His Leu Leu Tyr

Leu Leu Pro Thr Arg Lys Ile Lys Arg Ser Tyr Phe Phe Pro Leu Arg 65

Ser Asn Phe Ser Leu Asp Ser Trp Tyr Pro Gln Phe 85

<210> 2700

<211> 11

<212> PRT

<213> Homo sapiens

Met Phe Val Cys Leu Phe Leu Ile Asn Asn Ile 1

```
<210> 2701
<211> 120
<212> PRT
<213> Homo sapiens
<400> 2701
```

Val Val Phe Gly Ala Ser Leu Phe Leu Leu Ser Leu Thr Val Phe
1 5 10 15

Ser Ile Val Ser Val Thr Ala Tyr Ile Ala Leu Ala Leu Leu Ser Val 20 25 30

Thr Ile Ser Phe Arg Ile Tyr Lys Gly Val Ile Gln Ala Ile Gln Lys 35 40 45

Ser Asp Glu Gly His Pro Phe Arg Ala Tyr Leu Glu Ser Glu Val Ala 50 55 60

Ile Ser Glu Glu Leu Val Gln Lys Tyr Ser Asn Ser Ala Leu Gly His 65 70 75 80

Val Asn Cys Thr Ile Lys Glu Leu Arg Arg Leu Phe Leu Val Asp Asp 85 90 95

Leu Val Asp Ser Leu Lys Leu Ser Phe His Ser Ser Val Phe Leu Leu 100 105 110

Phe Met Asn Gly Ile Arg His Arg 115 120

```
<210> 2702
<211> 44
<212> PRT
<213> Homo sapiens
```

Val Tyr Thr His Thr His Thr His Thr His Thr His Val Ser Val Pro 20 25 30

Arg Asn Val Tyr Arg Gly Gly Gln Phe Ser Glu Asp 35

```
<210> 2703
<211> 34
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids
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<212> PRT

<220>

<213> Homo sapiens

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<400> 2703
Met Ile Ile Trp Phe Leu Pro Phe Thr Leu Leu Val Trp Phe Ile Thr
Phe Ile Asp Leu Phe Met Leu Asn His Pro Cys Xaa Pro Gly Ile Asn
                                 25
Leu Thr
<210> 2704
<211> 5
<212> PRT
<213> Homo sapiens
<400> 2704
His Ala Cys Phe Leu
<210> 2705
<211> 32
<212> PRT
<213> Homo sapiens
<400> 2705
Met Phe Cys Gly Ala Cys Gln Ile Gly Trp Asn Leu Trp Gly Leu Leu
Trp Glu Met Pro Arg Glu His Arg Phe Arg Arg Trp Glu Gln Leu Val
             20
<210> 2706
 <211> 23
 <212> PRT
 <213> Homo sapiens
 <400> 2706
 Met Ser Val Gln Arg Trp Ala Leu Lys Leu Thr Leu Ile Leu Leu Val
 Glu Lys Ser Leu Lys Ala Ile
              20
 <210> 2707
 <211> 39
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<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids
Met Leu Asn Asn Phe Leu Gly Ile Asn Leu Gln Ala Trp Thr Ser Arg
Leu Ser Xaa Gln Phe Leu Leu Thr Phe Ala Thr Tyr Cys Tyr Ala Asn
Phe Gln Lys Asn Cys Thr Gln
         35
<210> 2708
<211> 1
<212> PRT
<213> Homo sapiens
<400> 2708
Met
 1
<210> 2709
<211> 49
<212> PRT
<213> Homo sapiens
<400> 2709
Met Ala Pro Lys Phe Phe Val Ser Thr Gly Ile Ser Pro Met Ala Pro
                                      10
Ile Ala Thr Ala Lys Pro Thr Ala Pro Pro Val Leu Pro Ala Ser Leu
                                  25
 Pro Asp Arg Arg Cys Leu Gln Ser His Thr Gln Ser Ser Gly His Leu
          35
 Pro
 <210> 2710
 <211> 72
 <212> PRT
 <213> Homo sapiens
 <400> 2710
 Met Trp Met Ser Leu Val Leu His His Ser Leu Pro Leu Gly Val Thr
 Val Ala Leu His Cys Ala Cys Phe Val Ala Lys Asn Ser Gly Ile Pro
 Ser Gly Glu Arg Ser Cys Phe Gln Gly Asn Arg Gln Ala Gly Ser Glu
          35
```

<213> Homo sapiens

<400> 2714

Val Gln Glu Lys Ala Thr Glu Ala Trp Lys Gly Ser Ser Cys Ile Cys Ala Ser Cys Ala Arg Arg Thr Leu <210> 2711 <211> 35 <212> PRT <213> Homo sapiens <400> 2711 Met Lys Thr Gln Asn His Cys Ile Phe Cys Ile Val Ile Leu Phe Ser Thr Ser Val Pro Pro Leu Ile Trp Ser Trp Gln Cys Val Ser Val His Ser Leu Phe 35 <210> 2712 <211> 34 <212> PRT <213> Homo sapiens <400> 2712 Met Leu Lys Val Cys Val Cys Val Cys Val Cys Val Cys Val Cys Val Ser Tyr Pro Leu Lys Lys Gly Leu Tyr Asn Lys Ser Ala Ser His Trp 25 Leu Leu <210> 2713 <211> 5 <212> PRT <213> Homo sapiens <400> 2713 Met Asn Gly Leu Leu 1 <210> 2714 <211> 39 <212> PRT

Met Arg Ser Ser Gly Ala Trp Gln Ala Met Val Gly Val Trp Ile Leu

1		. 5					10					15	
Phe Leu Ser	Ala V 20	/al	Glu	Ser	Gln	Gly 25	Arg	Val	Leu	Ala	Glu 30	Gln	Arg
Cys Asn Leu 35	Ala 🤈	Trp	Ala	Leu									
<210> 2715 <211> 26 <212> PRT <213> Homo s	apie	ns						,					
<400> 2715 Met Tyr Cys 1	Ile	Ser 5	Trp	Glu	Val	Tyr	Phe 10	Met	Ser	Phe	Leu	Ala 15	Phe
Phe Phe Pro	Thr 20	Ala	Thr	Ala	Asn	Glu 25	Gly	-					
<210> 2716 <211> 25 <212> PRT <213> Homo sapiens													
<400> 2716 Met Ser Leu 1	Phe	Phe 5	Ile	Trp	Gln	Leu	Thr		Leu	Leu	Lys	Ala 15	Gln
Pro Asn Cys	Thr 20	Phe	Ala	Arg	Thr	Phe 25							
<210> 2717 <211> 92 <212> PRT <213> Homo	sapie	ens											
<220> <221> SITE <222> (77)						-				- T -	·=: ==	a a di	đc
<223> Xaa e	quals	s an	y of	the	e nat	ural	тту с	occui	r r r r r	ј п-с	amiliio	acı	us
<400> 2717 Met Ala Val	Leu	Ala 5		, Sei		ı Let	ı Gly 10	y Pro	Thi	Ser	Arg	Ser 15	Ala
Ala Leu Leu	Gly 20	Gly	Arç	Tr <u>r</u>) Le	ı Glr 25	n Pro	o Ar	g Ala	a Trp	Leu 30	ı Gly	Phe
Pro Asp Ala 35		Gly	r Let	ı Pro	Th:		o Gli	n Gl	n Ala	a Arg	g Gly 5	, Lys	: Ala
Arg Gly Asr	Glu	Туг	Glr	n Pro 5!		r Ası	n Il	е Гу	s Are	g Lys	s Asr	ı Lys	His

Gly Trp Val Arg Arg Leu Ser Thr Pro Ala Gly Val Xaa Val Ile Leu

Arg Arg Met Leu Lys Gly Arg Lys Ser Leu Ser His 85

<210> 2718

<211> 35

<212> PRT

<213> Homo sapiens

<400> 2718

Met Ile Lys Leu Val His Gln Ile Val Ile Leu Cys Val Met Arg Ile

Val Ala Gly Val Ile Leu Lys Cys Trp Tyr Leu Asp Arg Thr Ala Ser 25

Pro Gly Phe

<210> 2719

<211> 72

<212> PRT

<213> Homo sapiens

<400> 2719

Met Leu Asp Val Phe Leu Lys Ser Cys Phe Val Ser Phe Leu Ser Leu 10

Ile Val Lys Leu Leu Asn Ile Asn Arg Phe Ala Gln Pro Gln Arg Met 25

Arg Val Asp Asn Thr Glu Glu Val Met Gln Lys Gln Lys Ile Thr Leu 40

Leu Ile Ile Asp Ser Ile Thr Asn Lys Cys Leu Phe Leu Ser Leu Pro 55

Pro Phe Leu Pro Leu Pro Ser Ser 70 65

<210> 2720

<211> 37

<212> PRT

<213> Homo sapiens

<400> 2720

Met Leu Leu Cys Thr His Thr Ser Leu Leu Leu Tyr Phe Ser Phe Trp 10

Met Gly Leu Ala Lys Thr Gly Ser Gly Gln Arg Pro Pro Lys Leu Tyr 25

Val Leu Pro Val Ser

<212> PRT

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<210> 2721
<211> 17
<212> PRT
<213> Homo sapiens
<400> 2721
Met Pro Leu Gly Leu Pro Leu Ser Ala Ser Gly Phe Ser Val Gly Asp
Leu
<210> 2722
<211> 66
<212> PRT
<213> Homo sapiens
<400> 2722
Met Gln Lys Cys Arg Val Leu Ala Phe Leu Phe Cys Ala Leu Tyr Lys
Ala Gly Cys Asp Ser Asp Gln Leu Asn Phe Leu Tyr Tyr Val Ile Ser
                                  25
Leu Thr Ala Thr Val Lys Met Ile Lys Ser Leu Tyr Asn Arg Lys Leu
                              40
Phe Lys Phe Tyr Phe Ser Thr Asp Ile Ser Asn Ser Ser Val Asn Val
                          55
Tyr Gln
 65
 <210> 2723
 <211> 39
 <212> PRT
 <213> Homo sapiens
 <400> 2723
 Met Arg Phe Cys Cys Leu Ile Leu Gln Ile Leu Thr Arg Leu Val Leu
 Thr Lys Tyr Gly Arg Ser Gly Ile Arg Trp Lys Lys Glu Gly Ser Ser
                                  25
 Cys Cys Cys Ser Tyr Ser Cys
          35
 <210> 2724
 <211> 34
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<213> Homo sapiens

<400> 2724

Met Trp Arg Trp Lys Ala Val Thr Leu Met Ile Leu Thr Leu Ser Arg
1 5 10 15

Ser Arg Leu Met Cys Ala Phe Val Ser Trp Phe Leu Thr Lys Lys Phe
20 25 30

Lys Arg

<210> 2725

<211> 52

<212> PRT

<213> Homo sapiens

<400> 2725

Met Thr Ala Ser Pro Asp Tyr Leu Val Val Leu Phe Gly Ile Thr Ala 1 5 10 15

Gly Ala Thr Gly Ala Lys Leu Gly Ser Asp Glu Lys Glu Leu Ile Leu 20 25 30

Leu Phe Trp Lys Val Val Asp Leu Ala Asn Lys Lys Val Gly Gln Leu 35 40 45

His Glu Ser Ser 50

<210> 2726

<211> 45

<212> PRT

<213> Homo sapiens

<400> 2726

Met Arg Ala Ala Val Gln Thr Cys Leu Pro Ser Gln Ala Leu Ala Ser 1 5 10 15

Leu Thr Trp Gln Arg Leu Cys Pro Gly Leu Ser Pro Pro Arg Ala Met 20 25 30

Ser Leu Met Ala Val Leu Thr Glu Arg Ser Gln Ile Val 35 40 45

<210> 2727

<211> 35

<212> PRT

<213> Homo sapiens

<400> 2727

Met Leu Phe Met Ala His Leu Leu Leu Arg Thr His Pro Leu Ser Leu 1 5 10 15

Trp Val Thr Ser Arg Gln Ala Lys Asp Trp Cys Phe Ser Phe His Pro

20 25 30

Leu Glu Gly

<210> 2728

<211> 35 <212> PRT

<213> Homo sapiens

<400> 2728

Met Leu Phe Met Ala His Leu Leu Leu Arg Thr His Pro Leu Ser Leu 1 5 10 15

Trp Val Thr Ser Arg Gln Ala Lys Asp Trp Cys Phe Ser Phe His Pro 20 25 30

Leu Glu. Gly

<210> 2729

<211> 70

<212> PRT

<213> Homo sapiens

<400> 2729

Met Ser Pro Ser Gln Ser Gly Val Gly Ile Ser Gly Leu Gly Leu Phe
1 5 10 15

Leu Ser Lys Thr Pro Leu Phe Ser Leu Ile Leu Lys Val Ile Phe Leu 20 25 30

Arg Thr Glu Leu Leu Pro Lys Glu Arg Asp Gly Phe Pro Arg Arg His 35 40 45

Ser Trp Pro Ser Val Asp Leu Ser Val His Leu Leu Ala Leu Leu Ala 50 55 60

Asp Ser Ser Gly Trp Ala 65 70

<210> 2730

<211> 102

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2730

Met Thr Gly Val Gln Val Gln Trp Thr Val Ile Phe Leu Ala Pro Val

1 5 10 15

Ile Ala Val Ile Leu Cys Ala Met Gln Thr Met Leu Arg Ser Leu Trp

Leu Met Asp Leu Thr Leu Thr Val Ser Gln Val Val Glu Glu Arg Lys
35 40 45

Gln Met Lys Gly Lys Lys His Gly Ile Gln Gln Lys Lys Thr Leu
50 55 60

Glu Leu Ile Val Asn Met Met Xaa Val Ala Arg Val Gly Glu Lys Cys 65 70 75 80

Ser Thr Cys Ile Ser Lys Leu Asn Leu Met Leu Gln Met Lys Val Leu 85 90 95

Gly Lys Asp Ile Asn Gly 100

<210> 2731

<211> 36

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2731

Met Ser His Cys Trp Thr Leu Leu Ala Leu Ser Leu Trp Gly Leu Xaa 1 5 10 15

Val Ser Gln Gly Arg Glu Thr Trp Trp Arg Trp Pro His Gly Leu Gly 20 25 30

Pro Pro Cys Ser 35

<210> 2732

<211> 44

<212> PRT

<213> Homo sapiens

<400> 2732

Leu Ile Gly Val Phe Pro Pro His Leu Leu Ser Ser Leu Lys Cys Val 1 5 10 15

Pro Asp Ala Phe Ile Cys Cys Phe Thr Ser Met Phe Cys Phe Ser Ser 20 25 30

Ser Leu Cys Ser Leu Pro Val Tyr Pro Leu Ser Leu 35

<210> 2733

<211> 10

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<212> PRT
<213> Homo sapiens
<400> 2733
Met Ile Val Thr Lys Met Tyr Phe His Val
                  5
<210> 2734
<211> 16
<212> PRT
<213> Homo sapiens
<400> 2734
Glu Lys Ile Asp Gln Gln Phe Thr Phe Ala Val Cys Leu Val Phe Val
                                     10
<210> 2735
<211> 12
<212> PRT
<213> Homo sapiens
<400> 2735
Asn Trp Leu Asp Leu Phe Val Leu Gly Phe Ser Ser
<210> 2736
<211> 53
<212> PRT
<213> Homo sapiens
<400> 2736
Met Gly Gln Arg Gly Val Phe Leu Leu Ile Leu Asp Ala Phe Ser Val
Pro Ser Thr Ala Ser Cys Leu Ile Thr Pro Leu Pro Pro Pro His Pro
             20
Gln Pro Ser Gln Phe Phe Leu Ala Ser Ala Leu Gln Pro Tyr Leu Gly
         35
                              40
Lys Glu Glu Trp Val
     50
<210> 2737
<211> 53
<212> PRT
<213> Homo sapiens
<400> 2737
Met Gly Gln Arg Gly Val Phe Leu Leu Ile Leu Asp Ala Phe Ser Val
```

1 5 10 15

Pro Ser Thr Ala Ser Cys Leu Ile Thr Pro Leu Pro Pro Pro His Pro 25

Gln Pro Ser Gln Phe Phe Leu Ala Ser Ala Leu Gln Pro Tyr Leu Gly 40

Lys Glu Glu Trp Val

<210> 2738 <211> 37 <212> PRT <213> Homo sapiens <400> 2738

Met Leu Gln Met Cys Ile Tyr Ala Gln Trp Tyr Ala Tyr Leu Cys Val 1 5 10 15

Thr Val Ser Val Ala Ser Trp Leu Asp Pro Thr Ile Ser Ser Glu Ile 20 25 30

Met His Pro Lys Gly 35

<210> 2739 <211> 17 <212> PRT <213> Homo sapiens <400> 2739

Met Leu Phe Phe Cys Gln Ala Leu Phe Val Leu Ala Val Tyr Tyr Ile
1 5 10 15

Phe

<210> 2740 <211> 38 <212> PRT <213> Homo sapiens

Val Leu Ala Val Phe Tyr Leu Pro Ile Val Phe Ser Arg Ile Ile Glu 20 25 30

Ser Ala Asp Ser Phe Asp 35

<210> 2741 <211> 56 <212> PRT

<213> Homo sapiens

<400> 2741

Met Phe Leu Ala Ser Phe Ser Ser Pro Gly Phe Gln Leu Ser Phe Ser 1 5 10 15

Ser Ser Ser Asn Met Ala Ser Ala His Lys Ser Leu Leu Cys Gln Asp 20 25 30

Leu Met Val Leu His Leu Pro Glu Pro Ser Ser Ala Ser Val Pro Arg 35 40 45

Pro Gln Leu Val Arg Leu Thr His 50 55

<210> 2742 <211> 56

<212> PRT

<213> Homo sapiens

<400> 2742

Gly Trp Phe His Leu Phe Trp Gln Glu Trp Glu Gln Glu Pro Gly Gln
1 5 10 15

Asn Lys Leu Glu Ala Leu Val Leu Gly Thr Ala Ala Gly Arg Val 20 25 30

Gly Thr Arg Gln Asn Cys Leu Gln Asp Glu Ser Gln Glu Arg Thr Leu 35 40 45

Ser Pro Val Ser Gly Val Trp Leu 50 55

<210> 2743

<211> 33

<212> PRT

<213> Homo sapiens

<400> 2743

Met Val Pro Arg Ser Val Ala Phe Val Lys Thr Leu Ala Leu Leu Glu
1 5 10 15

Leu Gly Phe Ala Leu Ala Val Met Gln Gly Cys Ala Glu Pro Ile Ser 20 25 30

Met

<210> 2744

<211> 51

<212> PRT

<213> Homo sapiens

Thr Ala Arg Leu Val Ala Gly Leu Glu Asp Val Gln Val Tyr Asp Gly 20 25 30

Glu Asp Ala Val Phe Ser Leu Asp Leu Ser Thr Ile Ile Gln Gly Thr 35 40 45

Trp Phe Pro 50

<210> 2745 <211> 10 <212> PRT

<213> Homo sapiens

<400> 2745

Met His Leu Ile Thr Val Leu Leu Asn Val 1 5 10

<210> 2746 <211> 25 <212> PRT

<213> Homo sapiens

<400>.2746

Met Phe Cys Leu Ser Phe Pro Ile Ser Gly Ala Tyr Leu Leu Ile Pro 1 5 10 15

Ala Tyr Phe Leu Glu Val Val Gly Lys
20 25

<210> 2747 <211> 97

<212> PRT

<213> Homo sapiens

<400> 2747

Met Glu Val Val Val Thr Val Thr Pro Lys Thr Cys Pro Leu Ser Ser 1 5 10 15

Leu Leu Leu Phe Leu Leu Tyr Phe Leu Val Ile Gly Ser Val Ile His $20 \hspace{1cm} 25 \hspace{1cm} 30$

Leu Thr Ala Gly Phe Arg Ile Leu Val Leu Gly Leu Val Phe Leu Phe 35 40 45

Phe Pro Tyr Pro Pro Tyr Pro Asn Cys His Gln Val Leu Leu His Ala
50 55 60

Leu Met Ile Ser His Leu Ser Tyr Pro Ser Ser Phe Gln Ile Gly Pro 65 70 75 80

Ser Asp Phe Asn Leu Gly His Ser His Tyr Leu Leu Tyr Tyr Gly Lys
85 90 95

Ile

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<210> 2748
<211> 334
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (290)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (316)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (321)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 2748
Met Leu Phe Gly Ser Ile Phe Arg Cys Leu Asp Pro Ala Leu Thr Ile
Ala Ala Ser Leu Ala Phe Lys Ser Pro Phe Val Ser Pro Trp Asp Lys
             20
Lys Glu Glu Ala Asn Gln Lys Lys Leu Glu Phe Ala Phe Ala Asn Ser
Asp Tyr Leu Ala Leu Leu Gln Ala Tyr Lys Gly Trp Gln Leu Ser Thr
                          55
Lys Glu Gly Val Arg Ala Ser Tyr Asn Tyr Cys Arg Gln Asn Phe Leu
Ser Gly Arg Val Leu Gln Glu Met Ala Ser Leu Lys Arg Gln Phe Thr
Glu Leu Leu Ser Asp Ile Gly Phe Ala Arg Glu Gly Leu Arg Ala Arg
                                 105
Glu Ile Glu Lys Arg Ala Gln Gly Gly Asp Gly Val Leu Asp Ala Thr
                             120
         115
 Gly Glu Glu Ala Asn Ser Asn Ala Glu Asn Pro Lys Leu Ile Ser Ala
                         135
 Met Leu Cys Ala Ala Leu Tyr Pro Asn Val Val Gln Val Lys Ser Pro
 145
                     150
```

Glu Gly Lys Phe Gln Lys Thr Ser Thr Gly Ala Val Arg Met Gln Pro

175 170 165 Lys Ser Ala Glu Leu Lys Phe Val Thr Lys Asn Asp Gly Tyr Val His 190 185 Ile His Pro Ser Ser Val Asn Tyr Gln Val Arg His Phe Asp Ser Pro 200 Tyr Leu Leu Tyr His Glu Lys Ile Lys Thr Ser Arg Val Phe Ile Arg Asp Cys Ser Met Val Ser Val Tyr Pro Leu Val Leu Phe Gly Gly 235 Gln Val Asn Val Gln Leu Gln Arg Gly Glu Phe Val Val Ser Leu Asp 250 Asp Gly Trp Ile Arg Phe Val Ala Ala Ser His Gln Val Ala Glu Leu 260 Val Lys Glu Leu Arg Cys Glu Leu Asp Gln Leu Leu Gln Asp Lys Ile 280 Lys Xaa Pro Ser Ile Asp Leu Cys Thr Cys Pro Arg Gly Ser Arg Ile 290 Ile Ser Thr Ile Val Lys Leu Val Thr Thr Gln Xaa Lys Ala Val Leu 310 315 Xaa Ser Ala Cys Tyr Ser Pro Ala Ser Ser Ser Pro Gly Lys

<210> 2749

<211> 33

<212> PRT

<213> Homo sapiens

325

<400> 2749

Met Gly Leu Leu Trp Asn Leu Ile Ala Thr Tyr Phe Cys Phe Pro Leu 1 5 10 15

330

Asp Ala Ala Ser Thr His Val Asp Tyr Glu Val Leu Thr His Pro Arg 20 25 30

Ser

<210> 2750

<211> 50

<212> PRT

<213> Homo sapiens

<400> 2750

Met Leu Pro Pro Pro Ser Leu Leu Phe Ile Phe Ser Ala Phe Cys Leu

1 5 10 15

Ala Ser Leu Pro Pro Cys Phe Ser Gly Trp Glu Leu Leu Val Thr Pro

j.

30 25

Leu Ser Asp Cys Leu Val Ala Gly Thr Leu Pro Val Arg Ala Thr Phe 40

Leu Phe 50

<210> 2751

<211> 38

<212> PRT

<213> Homo sapiens

<400> 2751

Met Tyr Leu Lys Tyr Cys Tyr Val Ile Leu Gly Tyr Leu Phe Ile Phe

Glu Ile Phe Val Tyr Ile Ala Phe Leu Asn Leu Ala Asn Asn Met Cys 20

Lys Gly Ile Asn Gln Lys 35

<210> 2752

<211> 5

<212> PRT

<213> Homo sapiens

<400> 2752

Ile Val Gly Phe Asn

1

<210> 2753

<211> 30

<212> PRT

<213> Homo sapiens

<400> 2753

Met Leu Gln Phe Ser Cys Leu Ser Ile Ser His Val Leu Ile Leu Leu

Ile Thr Phe Phe Ala Cys Val Val Leu Ala Pro Phe Gln Lys 20

<210> 2754

<211> 29

<212> PRT

<213> Homo sapiens

<400> 2754

Met Phe Phe Ser Cys Leu Phe Leu Phe Gly Leu Tyr Ser Gly Cys Leu 5

Phe Leu Phe Val Lys Arg Lys Gln Cys Thr Glu Lys Gln 20 25

Leu Pro Ala Pro Glu Lys Val Phe Gln Tyr Leu Leu Cys
35 40 45

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<210> 2756
<211> 38
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (25)
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<223> Xaa equals any of the naturally occurring L-amino acids

Leu Leu Pro Gly Ile Pro Gly Leu Xaa Gly Phe Tyr Phe Asp Ser Lys 20 25 30

Gln Lys Gln Met Leu Cys 35

Ile Val Phe Ser Gln Val

```
<210> 2758
<211> 52
<212> PRT
<213> Homo sapiens
<400> 2758
Met Cys Val Val Asn Ile Leu Trp Phe Ser Ala Phe Thr Ser Met Arg
Val Ala Ser Asp Pro Ala Arg Leu Thr Gly Leu Pro Lys Pro Ser Leu
                                 25
Ala Ser Ser Thr Tyr Ile Ser Leu Cys Cys Ser Thr Ser Lys Gln Thr
                             40
Lys Ile Gly Val
    50
<210> 2759
<211> 31
<212> PRT
<213> Homo sapiens
<400> 2759
Met Phe Met Leu Ala Ile Leu Leu Thr Phe Phe His Pro Phe Leu Val
Tyr Arg Glu Cys Arg Thr Trp Lys Glu Ser Pro Ser Ala Ile Ala
                                  25
             20
<210> 2760
<211> 15
<212> PRT
<213> Homo sapiens
<400> 2760
Tyr Ile Phe Val Trp Ile Ser Ser Val Tyr Val Gln Tyr Phe Val
                 5
<210> 2761
<211> 40
<212> PRT
<213> Homo sapiens
<400> 2761
Met Met Phe Val Ile Leu Asn Ala Leu Val Leu Gly His Leu Leu Ile
Phe Leu Gln Val His Phe Leu Val His Glu Val Ser Phe Val Ile Asn
Val Cys His Met Phe Ile Pro Ile
         35
```

<210> 2763 <211> 46 <212> PRT <213> Homo sapiens

Ile Leu Lys Arg Pro Leu Gln Ile Ser Val Arg Val Phe Pro Val Ile 20 25 30

Thr His Ser Thr Leu Leu Lys Phe Ala Ile Ser Ser Ala Ile 35 40 45

<210> 2764 <211> 31 <212> PRT <213> Homo sapiens <400> 2764

Met Thr Phe Val Ile Tyr Tyr Thr His Trp Phe Leu Leu Ile Ile Val 1 5 10 15

Leu Ser Asp Phe Leu Phe Ser Thr Met Val Pro Leu Ala Glu Lys 20 25 30

<210> 2765 <211> 2 <212> PRT <213> Homo sapiens <400> 2765 Lys Trp 1

<210> 2766

```
<211> 33
<212> PRT
<213> Homo sapiens
<400> 2766
Met Glu Lys Leu Asp Trp Ala Tyr Ser Gln His Ser Val Ile Cys Lys
                                     10
Cys Ile Ser Leu Cys Arg Val Phe Leu Leu Gly Val Asn Phe Asp
Ser
<210> 2767
<211> 32
<212> PRT
<213> Homo sapiens
<400> 2767
Met Leu Thr Gly Thr Leu Phe Pro Gly Phe His Val Arg Leu Trp Ala
Leu Ser Pro Ala Gln Ala Gln Glu Cys Leu Val Gly Gly Glu Trp Ser
             20
<210> 2768
<211> 20
<212> PRT
<213> Homo sapiens
<400> 2768
Met Cys Gly Cys Thr Thr Phe Phe Cys Asp Tyr Met Gly Ser Phe Glu
                   5
 Arg Ile Tyr Leu
 <210> 2769
 <211> 46
 <212> PRT
 <213> Homo sapiens
 <400> 2769
 Met Ile Phe Leu Gly Leu His Thr Phe Ala Leu Phe Ser Glu Pro Cys
                                      10
 Pro Leu Asn Val Thr Leu Leu Pro Phe Ser Thr Val Cys Val Pro Thr
                                  25
```

Val Gln Gly Leu Pro Gly Thr Ala His Arg Leu Met Ala Cys 40

35

```
<210> 2770
<211> 37
<212> PRT
<213> Homo sapiens
<400> 2770
Met Tyr Cys Lys Gln Ser Cys Val Leu Ile Leu Phe Ser Leu Phe Glu
                                      10
Cys Ile Ile Ile Leu Ile Ile Pro Lys Thr Leu Thr Thr Gln Gly Thr
Ala Val Gln Tyr Tyr
         35
<210> 2771
<211> 28
<212> PRT
<213> Homo sapiens
<400> 2771
Met His Leu Pro Gln Leu Pro Leu Gln Ser His His Tyr Cys Arg Leu
Ala Leu Arg Val Ser Phe Gln Val Phe Trp His Val
             20
<210> 2772
<211> 32
<212> PRT
<213> Homo sapiens
<400> 2772
Lys Met Asn Leu Phe Val Leu Val Gly Ala Ile Ser Phe Ile Phe Arg
Thr Thr Glu Cys Ala Phe Ile Asn Arg Met Lys Ala His Ala Glu Asp
                                  25
              20
 <210> 2773
```

20 25 30

Pro Leu Tyr Leu Leu Arg Ser Ala Glu 35 40

<210> 2774

<211> 82

<212> PRT

<213> Homo sapiens

<400> 2774

Leu Pro Val Glu Glu Pro Asn Pro Ala Lys Arg Leu Leu Phe Leu Leu 1 5 10 15

Leu Thr Ile Val Phe Cys Gln Ile Leu Met Ala Glu Glu Gly Val Pro 20 25 30

Ala Pro Leu Pro Pro Glu Asp Ala Pro Asn Ala Ala Ser Leu Ala Pro
35 40 45

Thr Pro Val Ser Pro Val Leu Glu Pro Phe Asn Leu Thr Ser Glu Pro 50 55 60

Ser Asp Tyr Ala Leu Asp Leu Ser Thr Phe Leu Gln Gln His Pro Ala 65 70 75 80

Ala Phe

<210> 2775

<211> 39

<212> PRT

<213> Homo sapiens

<400> 2775

Met Ala Leu Leu His Leu Thr Gly Leu Lys Cys Trp Gly His Leu
1 10 15

Trp Leu Leu Cys Ile Thr Val His Thr Gln Val Glu Pro Val Cys Ser 20 25 30

Phe Pro Phe Asp Met Phe Phe 35

<210> 2776

<211> 45

<212> PRT

<213> Homo sapiens

<400> 2776

Met Met Leu Leu Leu Trp Pro Gly Leu Gln Trp Lys Cys Thr Gly
1 5 10 15

Thr Pro Asn Val Val Asn Ala Leu Ser Ser Ile Cys Ser Gly Ile Leu 20 25 30

```
Arg Val Gly Leu Trp Phe His Ala Leu Ala Val Cys Lys
                             40
<210> 2777
<211> 1
<212> PRT
<213> Homo sapiens
<400> 2777
Ser
  1
<210> 2778
<211> 30
<212> PRT
<213> Homo sapiens
<400> 2778
Met Arg Lys Tyr Leu Met Gly Thr Val Tyr Thr Phe Leu Val Leu Val
Ala Gly Lys Ala Trp Thr Ser Pro Leu Arg Asn Ile Ser Val
<210> 2779
<211> 47
<212> PRT
<213> Homo sapiens
Met His Glu Thr Cys Phe Tyr Phe Ala Ala Leu Val Leu Val Leu
Leu Arg Lys Glu Lys Glu Gly Arg Glu Phe Met Val Arg Arg Phe Leu
                                 25
Val Arg Arg Phe Ile Val Arg Arg Ser Arg Leu Gly His Lys
                             40
         35
<210> 2780
<211> 10
<212> PRT
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<210> 2780

<211> 10

<212> PRT

<213> Homo sapiens

<400> 2780

His Ala Gly Arg Tyr Cys Val Ile Arg Ala

1 5 10

<210> 2781
```

<211> 41

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<212> PRT
<213> Homo sapiens
```

<400> 2781

Leu Cys Thr Leu Ser Thr Ile Leu Cys Leu Phe Ser Ile Cys Leu Phe
1 5 10 15

Leu Pro Ile Ser Leu Pro Leu Arg Lys Lys Ile Gly Val Thr Phe Val 20 25 30

Lys Val Ile Leu Ile Val Asn His Leu 35 40

<210> 2782 <211> 11

<212> PRT

<213> Homo sapiens

<400> 2782

Leu Leu Phe Ala Ser Phe Leu Cys Lys Ile Leu
1 5 10

<210> 2783

<211> 63

<212> PRT

<213> Homo sapiens

<400> 2783

Met Phe Ile Ser Trp Phe Ile Leu Phe Arg Leu Tyr Pro Leu Ser Ser 1 5 10 15

Pro Phe Phe Ser Gln Asn Val Leu Lys Gln Ile Ser Asp Ile Leu Ser 20 25 30

Pro Tyr Tyr Phe Ile Gln Lys Tyr Phe Ser Ile Pro Glu Arg Tyr Ser 35 40 45

Ser Ser Lys Lys Lys Thr Thr Ile Pro Leu Ser His Leu Lys Ser 50 55 60

<210> 2784

<211> 59

<212> PRT

<213> Homo sapiens

<400> 2784

Met His Arg Trp Lys Ala Phe Phe Pro Gly Pro Tyr Pro Ser Leu His 1 5 10 15

Asn Thr Pro Val Thr Pro His His Gly Leu Leu Ser Asp Pro His Gly 20 25 30

Ile Pro Val Ala Leu Cys Ser His Thr Ala Phe Leu Ile Cys Pro Pro 35 40 45

```
Cys Leu Ser Leu Thr His Ile Leu Phe Gln Gly 50 55
```

```
<210> 2785

<211> 10

<212> PRT

<213> Homo sapiens

<400> 2785

Met Gly Cys Trp Leu Leu Pro Cys Phe Leu

1 5 10
```

```
<210> 2786
<211> 39
<212> PRT
<213> Homo sapiens
```

Ser Gln Asn Leu Tyr Leu Leu Ser Asn Leu His Phe Val Leu Val Pro 20 25 30

Leu Pro Phe Pro Ile Lys Glu 35

```
<210> 2787
<211> 34
<212> PRT
<213> Homo sapiens
<400> 2787
```

Met Met Pro Pro Thr Gly Ser Gly Leu Glu Asn Ile Glu Gly Gly Leu 1 5 10 15

Lys Val Leu Val Val Glu Ala Leu Val Gly Gln Gly Arg Pro Leu Arg 20 25 30

Ile Trp

<211> 7 <212> PRT

<213> Homo sapiens

```
<210> 2789
<211> 46
<212> PRT
<213> Homo sapiens
<400> 2789
Met Lys Leu Leu Arg Ser Ala Ala Lys Leu Met Val Leu Ile Ser Thr
Gln Thr Ser Tyr Ala Phe Gly Glu Gln Cys Thr His Leu Thr Leu Phe
Leu Ile Asn Ser Asn Ser Gly Lys Ile Pro Leu Thr Tyr Phe
                             40
<210> 2790
<211> 36
<212> PRT
<213> Homo sapiens
<400> 2790
Met Thr Gly Thr Pro Ala Trp Ala His Leu Leu Leu Leu Leu Leu
Gly Ser Ala Pro Gln Thr Arg Leu Trp Pro Pro Ser Gln Cys Pro Val
             20
Thr Ser Pro Glu
         35
<210> 2791
<211> 55
<212> PRT
<213> Homo sapiens
<400> 2791
Met Gly Gly Ile Leu Leu Ala Leu Ile Glu Gly Val Gly Ile Leu Leu
                   5
Thr Arg Tyr Thr Ala Gln Gln Phe Arg Asn Ala Pro Pro Phe Leu Glu
                                  25
Asp Pro Ser Gln Leu Pro Pro Lys Asp Gly Thr Pro Ala Pro Gly Tyr
                             40
 Pro Ser Tyr Gln Gln Tyr His
 <210> 2792
```

<400> 2792 Met Pro Ile Trp Ala Phe Val 1 5

<210> 2793

<211> 37

<212> PRT

<213> Homo sapiens

<400> 2793

Met Arg Lys Glu Phe Phe Leu Ile Leu Pro Leu Asp Phe Leu Phe Phe 1 5 10 15

Leu Leu Gln Val Ser Glu Arg Pro Arg Ser Leu Pro Leu Ser Pro Glu 20 25 30

Leu Glu Ser Ser Pro 35

<210> 2794

<211> 113

<212> PRT

<213> Homo sapiens

<400> 2794

Ser Ala Cys Asp Thr Gly Leu Ala Val Leu Leu Thr Val Phe Cys Ala 1 5 10 15

Cys Val Leu Pro Pro Phe Pro Pro Ala Ala Glu Thr Arg Pro Ser 20 25 30

Phe His Thr Gln Ile Ser Cys Pro Val Leu Thr Pro Pro Cys His His 35 40 45

Gln Pro Cys Leu Glu Pro Pro Ala Leu Trp Gln Gln Asn Gln Thr Phe 50 55 60

Leu Trp Ala Phe Lys Met Val Leu Cys Pro Pro Val Arg Ser Cys Val 65 70 75 80

Leu Ser Pro Lys Gly His Ala Lys Asp Trp Leu Trp Glu Ala Leu Ile 85 90 95

Thr Asn Pro Ser Thr Ser Ser Leu Pro Gln Ala Gly Ser Asn Lys Cys 100 105 110

Ile

<210> 2795

<211> 38

<212> PRT

<213> Homo sapiens

Gly Ser Leu Cys Leu Gly Ser Ser Ala Pro Gly Phe Gly Arg Gln Gln 20 25 30

Phe Pro Lys Asn Lys Met 35

<210> 2796

<211> 162

<212> PRT

<213> Homo sapiens

<400> 2796

Met Leu Val Met Lys Trp Glu Glu Ser Ile Ile Trp His His Leu Val 1 5 10 15

Leu Cys Ala Asn Ser Gly Leu Ser Ile Leu Leu Ile Leu Pro Cys Lys 20 25 30

Val Asn Asn Tyr Tyr Pro His Phe Ala Val Glu Lys Thr Glu Tyr Ser 35 40 45

Asp Thr Thr Leu Thr Phe Leu Gly Ser Lys Lys Leu Ser Val Ser Leu 50 55 60

Gly Phe Glu Leu Gln Val Asn Leu Ile Leu Lys His Val Leu Leu Ser 65 70 75 80

Ile Arg Thr Val Val Leu Leu Thr Gly His Gly Ala His Ala Cys Asn 85 90 95

Ser Ser Thr Leu Gly Ser Gln Gly Trp Gln Ile Thr Trp Thr Gln Glu 100 105 110

Phe Glu Thr Ser Pro Gly Ser Met Ala Lys Pro His Leu Asn Arg Lys 115 120 125

Tyr Leu Lys Val Arg Gln Val Trp Trp His Ala Pro Val Val Pro Ala 130 135 140

Thr Arg Glu Ala Glu Val Lys Gly Leu Leu Glu Pro Ala Arg Trp Arg 145 150 155 160

Leu His

<210> 2797

<211> 18

<212> PRT

<213> Homo sapiens

<400> 2797

Met Thr Cys Leu Leu Ser Gly Cys Leu Phe Cys Ser Arg Glu Gly Ser 1 5 10 15

Ala Val

```
<210> 2798
<211> 30
<212> PRT
<213> Homo sapiens
<400> 2798
Met Ile Phe Leu Leu Ile Val Asn Tyr Leu Ser Phe Ile Asp Tyr Gly
Arg Asp Leu Gln Asn Gly Ile His Val Gln Trp Cys Gly Glu
<210> 2799
<211> 71
<212> PRT
<213> Homo sapiens
<400> 2799
Glu Ser Ala Pro Pro Trp Leu Pro Ile Cys Pro Thr Arg Ser Leu Gly
Leu Leu Val Gln Leu Leu Ala Leu Ala Gly Ser Cys Ser Ala Gly Pro
             20
Arg Ala Leu Gly Gln Ala Ser Gly Val Val Arg Thr Thr Lys Pro Leu
Leu Ser Pro Ser Thr Pro Leu Asp Leu Gly Pro Pro Glu Pro Pro Ala
     50
Gly Trp Ala Tyr Thr Ser Ser
 65
<210> 2800
<211> 183
<212> PRT
<213> Homo sapiens
<400> 2800
Met Thr Lys Ser Ser Ala Val Leu Phe Ile Leu Ile Phe Ser Leu Ile
                                  10
```

Val Glu Gly Phe Ala Trp Cys Trp Gly Pro Arg Ser Ser Val Ala Phe
50 55 60

Phe Lys Leu Glu Glu Leu Arg Ala Ala Leu Val Leu Val Val Leu Leu 20 25 30

Ile Ala Gly Gly Leu Phe Met Phe Thr Tyr Lys Ser Thr Gln Phe Asn 40 45

Ala Gly Pro Ser Pro Arg Cys Ser Cys Arg Arg Leu Asn Ser Ala Ser 65 70 75 80

Arg Ile Pro Ser Thr Pro Cys Ser Thr Cys Ser His Ser Cys Ser Trp 85 90 95

Gly Ser Ser Leu Ser Leu Leu Tyr Leu Lys Val Ser Ile Cys Pro His 100 105 110

Leu Arg Lys Ser Ser Val Ser Arg Thr Gln Gly Cys Ser Cys Gly Tyr 115 120 125

Leu Gly Ala Ser Ser Leu Ala Gly Phe Ser Pro Leu Val Trp Ala Ser 130 135 140

Leu Ser Ser Ser Trp Ser Pro Glu Pro Pro Ala Ser Leu Ser Pro Leu 145 150 155 160

Pro Ala Phe Leu Arg Lys Ser Ala Leu Cys Cys Trp Gln Leu Ile Cys 165 170 175

Trp Ala Ile Arg Ser Ala Ser 180

<210> 2801

<211> 24

<212> PRT

<213> Homo sapiens

<400> 2801

Cys Ile Glu Cys Ile Val Leu Ala Gln Phe Ser Gly Ser Arg Lys Lys 1 5 10 15

Ile Gln Ala Arg Thr Ala Gly Leu 20

<210> 2802

<211> 38

<212> PRT

<213> Homo sapiens

<400> 2802

Met Ser Phe Pro Tyr Trp Leu Phe Tyr Leu Leu Leu Phe Ser Leu Pro 1 5 10 15

Ile Arg Asp Ile Leu Gly Gly Asp Gly Lys Gly Trp Ala Lys Glu Gln 20 25 30

Thr Leu Gly Leu Gly Pro 35

<210> 2803

<211> 35

<212> PRT

<213> Homo sapiens

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<400> 2803
Ser Ile Tyr Leu Phe Leu Leu Arg Ala Gln Arg Leu Phe Pro Asn Ile
Leu Cys Leu Leu Phe Pro Asp Leu Leu Thr Gly Phe Phe Leu Pro
                                 25
Met Asn Phe
         35
<210> 2804
<211> 15
<212> PRT
<213> Homo sapiens
<400> 2804
Phe Leu Phe Ile Asn Val Gln Leu Pro Leu Cys Leu Ala Ser Arg
<210> 2805
<211> 2
<212> PRT
<213> Homo sapiens
<400> 2805
Lys Leu
  1
<210> 2806
<211> 23
<212> PRT
<213> Homo sapiens
<400> 2806
Met Phe Ser His Asn Gly Lys Gly Lys Ala Ala Leu Trp Gly Leu Phe
                  5
                                     10
Leu Leu Val His Glu Ser His
             20
<210> 2807
<211> 33
<212> PRT
<213> Homo sapiens
<400> 2807
Met Gly Pro Ser Phe Phe Phe Leu Phe Ser Val Ala Phe Ser Ile Phe
Arg Val His Leu Ala Leu Pro Pro Asn Leu Ile Lys Asn Val Ser Asp
```

25

<400> 2812

Leu

```
<210> 2808
<211> 18
<212> PRT
<213> Homo sapiens
<400> 2808
Glu Lys Val Thr Arg Phe His Asn Ala Phe Leu Phe Pro Asn His Trp
Tyr Ser
<210> 2809
<211> 20
<212> PRT
<213> Homo sapiens
<400> 2809
Met Trp Trp Pro Ser Trp Met Thr Ser Ser Thr Gly Pro Ala Gly Val
Leu Cys Gly Pro
             20
<210> 2810
<211> 13
<212> PRT
<213> Homo sapiens
<400> 2810
Glu Phe Arg Ala Gly Phe Leu Leu Leu His Gly Met
<210> 2811
<211> 4
<212> PRT
<213> Homo sapiens
<400> 2811
Met Asn Ser Pro
 <210> 2812
 <211> 39
 <212> PRT
 <213> Homo sapiens
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Met Leu Ser Phe Arg Ile Ile Ser Ser Phe Tyr Ile Ile Leu Val Phe 1 5 10 15

Cys Ser Tyr Val Leu Arg Ala His Thr Leu Leu Gly Ser Val Ser Pro 20 25 30

Arg Glu Lys Trp Tyr Glu Lys 35

<210> 2813

<211> 8

<212> PRT

<213> Homo sapiens

<400> 2813

Met Leu Phe Phe Lys Leu Ala Ile

<210> 2814

<211> 40

<212> PRT

<213> Homo sapiens

<400> 2814

Met Leu Ile Lys Lys Leu Trp Phe Leu Gln Asp Phe Val Phe Arg Asp 1 5 10 15

Ser Gly Lys Glu His Ile Asn Gln Lys Glu Glu Leu Thr Ser Ile Leu 20 25 30

Leu Val Leu Lys Ile Thr Asp Tyr 35 40

<210> 2815

<211> 62

<212> PRT

<213> Homo sapiens

<400> 2815

Met Ala Met Tyr Cys Gly Leu His Gly Leu Thr Val Leu Thr Lys Met
1 5 10 15

Leu Pro Gly Cys Met Ser Ala Trp Lys Lys Leu Ser Arg Asn Thr Trp 20 25 30

Val Lys Lys Ile Ser Thr Pro Arg Ser Ala Ser Ile Phe Met Ser Val 35 40 45

Arg Trp Ser Ala Arg Val Ala Arg Ser Val Thr Cys Thr Pro 50 55 60

<210> 2816

<211> 36

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<212> PRT
<213> Homo sapiens
<400> 2816
Met Phe Asn Ser Leu Leu Ala Phe Phe Leu Ile Leu Trp Gly Cys Ile
Thr Ser Leu Lys Asp Ile Val Ile Ile Ser Tyr Lys Val Lys Ile Lys
Lys Asp Cys Val
         35
<210> 2817
<211> 33
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 2817
Met Ala Leu Ile Leu Leu Leu Xaa Val Leu Met Glu Val Thr Leu Glu
Gly Lys Lys Lys Met Asp Gly Val His Met Glu Glu Met Val Gln Lys
             20
Thr
<210> 2818
<211> 26
<212> PRT
<213> Homo sapiens
Met Leu Val Leu Thr Phe Val Ser Val Tyr His Leu Asn Val Phe Met
                  5
Tyr Leu Met Val Phe Cys Gly Cys Phe Ser
             20
<210> 2819
<211> 9
<212> PRT
<213> Homo sapiens
<400> 2819
Met Val Ser Ser Pro Gln Gly Leu Cys
```

```
<210> 2820
<211> 17
<212> PRT
<213> Homo sapiens
<400> 2820
Tyr Cys Ile Phe Thr Phe Leu Ser Thr Ala Asp Val Thr Ile Tyr Gly
                                   10
Gln
<210> 2821
<211> 25
<212> PRT
<213> Homo sapiens
<400> 2821
Lys Leu Ile Trp Gln Val Leu Leu Val Phe Leu Ile Ile Ile Leu
Asn Pro Lys Tyr Ser Asn Phe Leu Asn
 20
<210> 2822
<211> 18
<212> PRT
<213> Homo sapiens
Met Thr Gly Leu His Met Thr Leu Leu Ile Ser Phe Ile Tyr Val Ser
                 5
Thr Phe
<210> 2823
<211> 45
<212> PRT
<213> Homo sapiens
<400> 2823
Met Gly Phe Ile Gly Leu Met Val Ala Met Ile Phe Ile Met Leu Phe
Gly Ser Trp Asp His Lys Asn Val Cys Leu Phe Leu Glu Tyr Leu Gly
Ser Leu Lys Arg Lys Gly Ile Lys Lys Pro Leu His Leu
                             40
         35
```

<210> 2824

```
<211> 7
<212> PRT
<213> Homo sapiens
<400> 2824
Met Thr Thr Leu Gln Gly Gly
<210> 2825
<211> 14
<212> PRT
<213> Homo sapiens
<400> 2825
Lys Pro Leu Phe Leu His Leu Pro Leu Leu Thr Leu Gln Ala
<210> 2826
<211> 59
<212> PRT
<213> Homo sapiens
<400> 2826
Met Gly Leu Ser Val Leu Leu Pro Leu Cys Leu Leu Gly Pro Gly Arg
Phe Thr Ser Gly Gln Lys Pro Leu Asp Thr Pro Gly Leu Gly Ala Ala
Val Leu Ser Val Arg Lys Ala Gly Leu Lys Met Arg Ser His Leu Thr
                              40
Pro Ser Val Cys Thr Val Pro Ser Pro Gly Ser
                          55
 <210> 2827
 <211> 34
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> SITE
 <222> (24)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <400> 2827
 Met Leu Thr Ser Leu Ile Cys Tyr Ala Ile Pro Cys Lys Phe Leu Asn
                                      10
 Phe Ala Val Pro Trp Phe Cys Xaa Ile Thr Pro Gly Ser Val Thr Met
                                   25
              20
```

Ala Thr

<400> 2831

```
<210> 2828
<211> 34
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids
Met Leu Thr Ser Leu Ile Cys Tyr Ala Ile Pro Cys Lys Phe Leu Asn
Phe Ala Val Pro Trp Phe Cys Xaa Ile Thr Pro Gly Ser Val Thr Met
Ala Thr
<210> 2829
<211> 38
<212> PRT
<213> Homo sapiens
<400> 2829
Met Arg Met Ile Ile Ile Ser Tyr Ile Lys Ile Cys Gly Arg Phe Thr
Val Met Ile Thr Leu Leu Val Pro Thr Leu Ser Leu Asn Leu His Asp
                                  25
             20
Pro Val Ala Ser Lys Asn
         35
<210> 2830
<211> 31
<212> PRT
<213> Homo sapiens
<400> 2830
Met Gly Asn Leu Tyr Pro Lys Leu Gly Leu Lys Ile Ile Phe Ile Phe
Val Phe Gln Gln Thr Trp Val Leu Cys Pro Ala Met Asp Gln Lys
                                  25
              20
 <210> 2831
 <211> 77
 <212> PRT
 <213> Homo sapiens
```

Val Thr Gln Ser Lys Trp Leu Ile Phe Tyr Ile Val Val Tyr Phe Val 1 5 10 15

Leu Pro Ser Ser Leu Arg Asn Lys Ala Arg Ile Phe Ser Leu Phe Asp 20 25 30

Ile Tyr Ser Glu Thr Lys Gly Leu Leu Asp Leu Met Ile Phe Leu Gln 35 40 45

Leu Ser Glu Gly Ala Phe Ser Thr Ile Gln Val Ile Leu Ile His Thr 50 55 60

Lys Val Glu Asn His Cys Thr Arg Ser Leu Cys Val Phe 65 70 75

<210> 2832

<211> 13

<212> PRT

<213> Homo sapiens

<400> 2832

Met Leu Ser Val Ala Thr Asn Arg Ile Tyr Asn Ser Asn 1 5 10

<210> 2833

<211> 67

<212> PRT

<213> Homo sapiens

<400> 2833

Met Phe Asn Trp Asn Leu Trp Leu Thr Thr Leu Ile Thr Gly Leu Ala
1 5 10 15

Gly Pro Leu Leu Leu Leu Leu Gly Leu Val Phe Gly Pro Cys Ile 20 25 30

Leu Asn Trp Phe Leu Lys Phe Ile Lys Gln Phe Ile Ala Ser Val Lys 35 40 45

Leu Thr Tyr Leu Lys Thr Gln Tyr Asn Ser Leu Val Val Thr Glu Glu 50 55 60

Ser Met Ile 65

<210> 2834

<211> 18

<212> PRT

<213> Homo sapiens

<400> 2834

Met Cys Glu Ser Phe Pro Glu Gly Phe Cys Pro Cys Phe His Met Ser

1 5 10 15

His Asn

```
<210> 2835
<211> 21
<212> PRT
<213> Homo sapiens
<400> 2835
Met Phe Lys Val Arg Gly Phe Leu Ser Ile Cys Leu Val Phe Cys Trp
Gln Val Thr Cys Arg
             20
<210> 2836
<211> 47
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 2836
Met Phe Lys Val Arg Gly Phe Leu Ser Ile Cys Leu Val Phe Cys Trp
Xaa Gly His Met Gln Val Ile Gly Tyr Gly Lys Gly Lys Met Pro Arg
Leu Leu Leu Gly Trp Ser Pro Ser Pro Lys Phe Lys Pro Pro Glu
         35
 <210> 2837
 <211> 35
 <212> PRT
 <213> Homo sapiens
 <400> 2837
 Met Ser Leu Pro Leu Tyr Val Ser Leu Ser Asp Met Phe Tyr Ala Lys
 Leu Ser Asp Phe Lys Phe Lys Ile Ser Glu Ile Lys Cys Pro Ser Leu
              20
 His Ile Val
          35
 <210> 2838
 <211> 19
 <212> PRT
 <213> Homo sapiens
```

<400> 2842

```
<400> 2838
Met Leu Val Leu Val Val Phe Cys Trp Ala Val Leu Val Tyr Phe His
Pro Ser Leu
<210> 2839
<211> 29
<212> PRT
<213> Homo sapiens
<400> 2839
Met Met Cys Phe Leu Phe Leu Asn Glu Ile Cys Leu Ala Ser Cys Met
Glu Asn Glu Phe Cys Trp Ser Ile Val Glu Thr Glu Thr
             20
<210> 2840
<211> 36
<212> PRT
<213> Homo sapiens
<400> 2840
Met Lys Met Leu Ile Cys Ser Leu Thr Leu Leu Val Cys Leu Ser Pro
                5
Arg Val Gly Arg Arg Ser Arg Tyr Tyr His Ser Lys Gly Thr Glu Ser
                                  25
              20
Val Ser Thr Leu
         35
 <210> 2841
 <211> 18
 <212> PRT
 <213> Homo sapiens
 <400> 2841
 Met Asn Met Ile Cys Leu Ser Tyr Arg Leu Ala Leu Thr Cys Phe Phe
                                     10
 Phe Gln
 <210> 2842
 <211> 348
 <212> PRT
 <213> Homo sapiens
```

Gly Thr Leu Leu Gly Lys Ala Leu Ala Ala Val Ser Leu Ser Leu Ala Leu Ala Ser Val Thr Ile Arg Ser Ser Arg Cys Arg Gly Ile Gln Ala Phe Arg Asn Ser Phe Ser Ser Ser Trp Phe His Leu Asn Thr Asn Val Met Ser Gly Ser Asn Gly Ser Lys Glu Asn Ser His Asn Lys Ala Arg Thr Ser Pro Tyr Pro Gly Ser Lys Val Glu Arg Ser Gln Val Pro Asn Glu Lys Val Gly Trp Leu Val Glu Trp Gln Asp Tyr Lys Pro Val Glu Tyr Thr Ala Val Ser Val Leu Ala Gly Pro Arg Trp Ala Asp Pro Gln Ile Ser Glu Ser Asn Phe Ser Pro Lys Phe Asn Glu Lys Asp Gly His 115 Val Glu Arg Lys Ser Lys Asn Gly Leu Tyr Glu Ile Glu Asn Gly Arg Pro Arg Asn Pro Ala Gly Arg Thr Gly Leu Val Gly Arg Gly Leu Leu 150 Gly Arg Trp Gly Pro Asn His Ala Ala Asp Pro Ile Ile Thr Arg Trp 165 Lys Arg Asp Ser Ser Gly Asn Lys Ile Met His Pro Val Ser Gly Lys 180 His Ile Leu Gln Phe Val Ala Ile Lys Arg Lys Asp Cys Gly Glu Trp 200 Ala Ile Pro Gly Gly Met Val Asp Pro Gly Glu Lys Ile Ser Ala Thr 215 210 Leu Lys Arg Glu Phe Gly Glu Glu Ala Leu Asn Ser Leu Gln Lys Thr 230 Ser Ala Glu Lys Arg Glu Ile Glu Glu Lys Leu His Lys Leu Phe Ser 245 Gln Asp His Leu Val Ile Tyr Lys Gly Tyr Val Asp Asp Pro Arg Asn 265 Thr Asp Asn Ala Trp Met Glu Thr Glu Ala Val Asn Tyr His Asp Glu 280 275 Thr Gly Glu Ile Met Asp Asn Leu Met Leu Glu Ala Gly Asp Asp Ala 295 Gly Lys Val Lys Trp Val Asp Ile Asn Asp Lys Leu Lys Leu Tyr Ala 310

Ser His Ser Gln Phe Ile Lys Leu Val Ala Glu Lys Arg Asp Ala His

325 330 335

Trp Ser Glu Asp Ser Glu Ala Asp Cys His Ala Leu 340 345

<210> 2843

<211> 34

<212> PRT

<213> Homo sapiens

<400> 2843

Met Thr Ile Thr Leu Val Ala Phe His Leu Ile Leu Pro Ser Phe Ile 1 5 10 15

Ile Trp Phe Thr Trp Ile Cys His Pro Ile Asn Ser Glu Val Tyr Gln
20 25 30

Gln Asn

<210> 2844

<211> 29

<212> PRT

<213> Homo sapiens

<400> 2844

Phe Phe Phe Gly Phe Phe Val Phe Phe Lys His Gln Ser Ala Leu 1 5 10 15

Ser Glu Cys Arg Val Leu Ile Gly Gly Met Met Val 20 25

<210> 2845

<211> 58

<212> PRT

<213> Homo sapiens

<400> 2845

Met Gln Gly Pro Gly Leu Ser Ala Ala Gly Gly Cys Leu Trp Ala Trp
1 5 10 15

Leu Ser Leu Gly Thr Pro Phe Leu Ser Val Ala Thr Leu Ala Val Ser 20 25 30

Gly Ala Ala Leu Asp Asn Phe Gly His Arg Asn Ser Gly Gly Phe 35 40 45

Trp Ser Ser Glu Val Ala Thr Gln Gln Val
50 55

<210> 2846

<211> 82

<212> PRT

```
<213> Homo sapiens
<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
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<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
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<223> Xaa equals any of the naturally occurring L-amino acids
<400> 2846
Cys Ser Xaa Ser Tyr Leu Trp Gln Val Asp Tyr Ile Gly Pro Leu His
Tyr Gly Arg Asp Arg Ile Xaa Ser Tyr Trp Asn Ile Leu Thr Gln Asp
Met Asp Leu Pro Phe Leu His Ala Ile Leu Leu Pro Arg Val Pro Ser
Met Asp Leu Gln Asn Cys Leu Val Asp Cys His Gly Ile Thr His Ser
Ile Ala Phe Asp Gln Gly Thr Xaa Ser Thr Asp Arg Asn Ala Ala Met
                                          75
His Ser
<210> 2847
<211> 123
<212> PRT
<213> Homo sapiens
<400> 2847
Val Ala Arg Leu His Arg Leu Leu His Thr Phe Leu Leu Thr Phe Cys
Cys Leu Leu Met Ala Glu Glu Ala Ala Val Phe Ala Lys Tyr Leu Ala
             20
His Gly Leu Pro Ala Gly Ala Pro Leu Arg Leu Val Phe Leu Leu Asn
                              40
Val Leu Leu Gly Leu Trp Asn Phe Cys Cys Ser Val Pro Ser Ser
Ile Ser Thr Ser Thr Leu Thr Arg Trp Trp Ala Pro Gln Trp Ala Pro
```

90

Leu Pro Gly Thr Ser Pro Met Ala Ala Gly Ile Ile Ser Pro Gly Leu

85

Gln Gly Ala Gln Ala Met Gly Ser Ser Pro Val Pro Thr Pro Ala Ala 100 105 110

Ser Ile Thr Glu Arg Asn Lys Asn His Arg Ala 115 120

<210> 2848

<211> 72

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2848

Met Ser Pro Trp Asp Leu Pro Arg Arg Gly Leu Leu Leu Leu Val Leu 1 5 10 15

Pro Phe Leu Leu Ser Pro Arg Pro Leu Val Tyr Leu Leu Leu Pro Ala 20 25 30

Leu Pro Gln Leu Gln Xaa Leu Gln Ala His Gln Gln Thr Val Leu Ser 35 40 45

Ser Pro Leu Lys Leu Gln Thr Lys Pro Thr Leu Gln Ala Lys Leu His 50 55 60

Leu Gly Leu Glu Met Val Ile Ser

<210> 2849

<211> 13

<212> PRT

<213> Homo sapiens

<400> 2849

Tyr Thr His Thr Tyr Ala His Met Leu Trp Val Leu Pro 1 10

<210> 2850

<211> 37

<212> PRT

<213> Homo sapiens

<400> 2850

Met Leu Ile Arg Val Ile Ile Phe Lys Ser Phe Ser Gln Ser Cys Ile 1 5 10 15

Ser Ile Leu Ala Leu Ser Lys Leu Val Glu Leu Phe Ser Val Leu Leu 20 25 30

Asp Ile Leu His Ser

```
<210> 2851
<211> 37
<212> PRT
<213> Homo sapiens
<400> 2851
Met Asp Ile Lys Ile Leu Pro Met Cys Phe Val Phe Tyr Cys Cys Ser
Ile Cys Tyr Cys Thr Cys Asp Gly Thr Cys Ala Tyr Ile Ala Leu Lys
Gln Ile Ser Arg Ser
         35
<210> 2852
<211> 31
<212> PRT
<213> Homo sapiens
<400> 2852
Met Tyr Leu Phe Ile Leu Leu Tyr Leu Cys Phe Tyr Phe Ser Ser
Glu Asn Gly Phe Leu Val Ser Glu Val Tyr Leu Tyr Leu Lys Phe
             20
<210> 2853
<211> 20
<212> PRT
<213> Homo sapiens
Met Trp Pro Leu Leu Phe Ala Ile Cys Val Ser Val Ala Tyr Gly Leu
Ser Cys Ile Arg
             20
<210> 2854
<211> 20
<212> PRT
<213> Homo sapiens
<400> 2854
Gly Lys Cys Leu Ile Asn Leu Val Ile Gly Trp Val Lys Tyr Met Gly
                  5
                                      10
Glu Phe Tyr Met
```

<210> 2855
<211> 20
<212> PRT
<213> Homo sapiens
<400> 2855
Gly Lys Cys Leu Ile Asn Leu Val Ile Gly Trp Val Lys Tyr Met Gly
1 5 10 15

Glu Phe Tyr Met

<210> 2856 <211> 82 <212> PRT <213> Homo sapiens

<400> 2856

Met Ser Cys Ser His Thr Cys Leu Tyr Leu Lys Pro Ser Val Cys Pro 1 5 10 15

Val Val Trp Gly Glu Val Met Asp Ser Ala Arg Trp Thr Cys Cys Gly
20 25 30

Trp Met Phe Pro Ala Cys Ala Gly Pro Glu Trp Thr Gly Ala Thr Ser 35 40 45

Gln His Val Arg Glu Asn His Cys His Thr Ile Pro Met Asp Phe Val 50 55 60

Leu Phe Leu Lys Lys Lys Phe Phe Ser Val Asn Met Asn Phe Phe 65 70 75 80

Ser Met

<210> 2857 <211> 156 <212> PRT <213> Homo sapiens

Ile Leu Ile Gly Gly Trp Ile Asn Met Thr Phe Ser Gly Phe Val Thr 20 25 30

Thr Lys Val Pro Phe Pro Leu Thr Leu Arg Phe Lys Pro Met Leu Gln 35 40 45

Gln Gly Ile Glu Leu Leu Thr Leu Asp Ala Ser Trp Val Ser Ser Ala 50 55 60

Ser Trp Tyr Phe Leu Asn Val Phe Gly Leu Arg Ser Ile Tyr Ser Leu

75 80 70 65 Ile Leu Gly Gln Asp Asn Ala Ala Asp Gln Ser Arg Met Met Gln Glu Gln Met Thr Gly Ala Ala Met Ala Met Pro Ala Asp Thr Asn Lys Ala 105 Phe Lys Thr Glu Trp Glu Ala Leu Glu Leu Thr Asp His Gln Trp Ala 120 Leu Asp Asp Val Glu Glu Leu Met Ala Lys Asp Leu His Phe Glu 135 130 Gly Met Phe Lys Lys Glu Leu Gln Thr Ser Ile Phe 150 145 <210> 2858 <211> 31 <212> PRT <213> Homo sapiens <400> 2858 Met Gln Ser Leu Val Glu Asn Phe Leu Gly Leu Cys Leu Leu Cys Asn Tyr Leu Asn Met Ile Trp Gln Lys Leu Ala Cys Ile Gln Val Lys <210> 2859 <211> 17 <212> PRT <213> Homo sapiens Met Ile Leu Val Gly Leu Trp Leu Ile Gln Trp Leu Leu Leu Lys Tyr 5 Lys <210> 2860 <211> 4 <212> PRT <213> Homo sapiens

<210> 2861 <211> 126 <212> PRT

<400> 2860 Met Arg Ser Glu <213> Homo sapiens

<400> 2861

Met Ser Leu Gln Leu Asp Arg Arg Gly Met Trp Asn Met Leu Gly Pro 1 5 10 15

Cys Leu Phe Ala Phe Val Ile Met Ala Ser Met Trp Ala Tyr Arg Cys
20 25 30

Gly His Arg Arg Gln Cys Tyr Pro Thr Ser Trp Gln Arg Trp Ala Phe 35 40 45

Tyr Leu Leu Pro Gly Val Ser Met Ala Ser Val Gly Ile Ala Ile Tyr 50 55 60

Thr Ser Met Met Thr Ser Asp Asn Tyr Tyr Tyr Thr His Ser Ile Trp 65 70 75 80

His Ile Leu Leu Ala Gly Ser Ala Ala Leu Leu Leu Pro Pro Pro Asp 85 90 95

Gln Pro Ala Glu Pro Trp Ala Cys Ser Gln Lys Phe Pro Cys His Tyr 100 105 110

Gln Ile Cys Lys Asn Asp Arg Glu Glu Leu Tyr Ala Val Thr 115 120 125

<210> 2862

<211> 39

<212> PRT

<213> Homo sapiens

<400> 2862

Met Phe Ser Phe Tyr Ser His Asn Pro Leu Lys Pro Cys Leu Val Leu 1 5 10 15

Leu Leu Phe Ala Ser Ala Val Gln Asp Val Ala Pro Phe Leu Leu Phe 20 25 30

Glu His Gly Leu Val Thr Arg 35

<210> 2863

<211> 24

<212> PRT

<213> Homo sapiens

<400> 2863

Met Cys Asn Leu Tyr Leu Ile Leu Tyr Phe Val Ile His Thr Asn Met
1 5 10 15

Ser Arg His Cys Asp Ile Cys Leu 20

<210> 2864

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<211> 23
<212> PRT
<213> Homo sapiens
<400> 2864
Met Pro Ser Leu His Thr Phe Phe Leu Leu Pro Phe Val Phe Met
Pro Val Ala Phe Thr Leu His
             20
<210> 2865
<211> 38
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 2865
Met Ala Lys Cys Ile Thr Ile Thr Leu Phe Thr Val Ile Xaa Phe Ala
Glu Asn Ile Ser Xaa Ser Trp Asn Cys Glu Ile Lys Leu Lys Ile Leu
Leu Val Lys Met Thr Asn
         35
<210> 2866
<211> 38
<212> PRT
<213> Homo sapiens
<400> 2866
Met Ala Lys Cys Ile Thr Ile Thr Leu Phe Thr Val Ile Cys Phe Ala
Glu Asn Ile Ser Ser Ser Trp Asn Cys Glu Ile Lys Leu Lys Ile Leu
                                  25
              20
Leu Val Lys Met Thr Asn
          35
 <210> 2867
 <211> 18
 <212> PRT
 <213> Homo sapiens
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<400> 2871

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<400> 2867
Cys Leu Leu Leu Ser Lys Leu Leu His Leu Gln Pro Leu Ala Val Ala
        5
Asp Ser
<210> 2868
<211> 40
<212> PRT
<213> Homo sapiens
<400> 2868
Met Phe Cys Thr Leu Trp Ile Gly Ile Leu Val Arg Lys Ser Ile Ala
Ser Arg Lys Arg Leu Met Ser Gln Leu Ala Gly Glu Thr Val Pro Ser
Phe Trp Val Ala Val Leu Val Lys
<210> 2869
<211> 35
<212> PRT
<213> Homo sapiens
<400> 2869
Met Val Ile Leu Leu Ala His Pro Cys Ile His Gln Pro Gly Ile Ser
Leu Asn Leu Phe Ala Ser Glu Phe Leu Leu Thr Phe Gln Tyr Ile Gly
Ile Ile Asp
         35
<210> 2870
<211> 11
<212> PRT
<213> Homo sapiens
<400> 2870
Met Tyr Phe Ser Ile Glu Gly Gly Val Phe Gln
 1
<210> 2871
<211> 24
<212> PRT
<213> Homo sapiens
```

Val Cys Val Thr Val Ser Asn Pro Ile Ser Cys Leu Ser Val Ala Pro 1 5 10 15

Ser His Leu Leu Asp Gln Ala Ala 20

<210> 2872

<211> 26

<212> PRT

<213> Homo sapiens

<400> 2872

Met Ser Thr Ile Met Phe Ser Leu Trp Thr Ile Cys Val Gly Leu Pro 1 5 10 15

Pro Ala Arg Ser Leu Leu Tyr Pro His Gln 20 25

<210> 2873

<211> 37

<212> PRT

<213> Homo sapiens

<400> 2873

Met Gln Ile Leu His Trp Gln Trp Leu Leu Cys Val Lys Tyr Phe Pro 1 5 10 15

Phe Gly Leu Ile Phe Ile His Ile Val Ser Leu Asn Lys Gly Glu Thr 20 25 30

Thr Tyr Arg Arg Asn 35

<210> 2874

<211> 39

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2874

Met Thr Leu Ala Phe Val Val Leu Ala Leu Trp Pro Asn Gly Arg Xaa 1 5 10 15

His Val Leu Val His Met Cys Trp Leu Leu Phe Leu Lys Ser Trp Gln 20 25 30

Cys Gln His Met Gly Gly Ile

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<210> 2875
<211> 1
<212> PRT
<213> Homo sapiens
<400> 2875
Leu
  1
<210> 2876
<211> 148
<212> PRT
<213> Homo sapiens
<400> 2876
Met Ser Pro Arg Trp Ala Leu Val Thr Leu Leu Gly Phe Ser His Arg
Lys Gln Arg Cys Leu Pro Leu Pro Leu His Ile Leu Pro Leu Pro
Ser Arg Ala Gly Phe Trp Val His Leu Ser Thr Gly Arg Cys Ser Gln
Gly Val Gly Ala Gly Gly Gly Val Cys Gly Gln Val Leu Gly Gly Thr
Arg Lys Ser Arg Gly Val Ala His Ala Asp Gln Ala His Val Ala His
                     70
Gly Ala Glu Leu Pro Arg Thr Ala His Asp Ser Ala Thr Phe Ser Pro
Phe Gln Pro Arg Arg Asp Val Thr Leu Glu Leu Leu Trp His Phe Cys
                                 105
             100
Gln Ala Ser Pro Ala Pro Ile Ala Leu Arg Ser Leu Leu Phe Val Arg
                             120
Asp Leu Gln Arg Leu Thr Phe Leu Leu Phe Ser His His Ser Ile Val
    130
                         135
Ile Leu Arg Asn
 145
<210> 2877
 <211> 7
 <212> PRT
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<210> 2878

<400> 2877

<213> Homo sapiens

Met His Leu Val Thr Val Cys

```
<211> 10
<212> PRT
<213> Homo sapiens
<400> 2878
Met Ser Leu Cys Gly Ser Arg Asp Leu Cys
<210> 2879
<211> 8
<212> PRT
<213> Homo sapiens
<400> 2879
Met Trp Ile Leu Leu Tyr Leu Ile
<210> 2880
<211> 15
<212> PRT
<213> Homo sapiens
<400> 2880
Met Met Phe Leu Leu Ile Phe Val Trp Tyr Leu Gln Pro Tyr Pro
            5
<210> 2881
<211> 18
<212> PRT
<213> Homo sapiens
<400> 2881
Met Gln Leu Trp Leu Lys Ser Gly Leu Leu Ser Phe Ile Leu Ile
Leu Pro
.<210> 2882
<211> 7
<212> PRT
<213> Homo sapiens
<400> 2882
Leu Gly Phe Leu Leu Thr
              5
<210> 2883
<211> 77
<212> PRT
<213> Homo sapiens
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Ser Ile Trp Ser Ile Ala Phe Phe Leu Ala Cys Gln Ala Ala Arg Ile 20 25 30

Phe Arg Asp His Leu Val Gln Ser Leu Ile Arg Cys Leu His Pro His 35 40 45

Thr Tyr Val Pro Ser Lys Gly Ser Ala Phe Asp Ile Val Phe Ile Leu 50 55 60

His Leu Phe Ser Leu Ser Arg Asp Ser Glu Arg Ala Glu 65 70 75

<210> 2884

<211> 37

<212> PRT

<213> Homo sapiens

<400> 2884

Met Ser Leu Ser Leu Ile Tyr Phe Ser Val Ser Phe Thr Thr Phe Gly
1 5 10 15

Val Lys Ser Ser His Asp Leu Tyr Ile Pro Arg Leu Leu Leu Lys 20 25 30

Ile Leu Tyr Ile Leu 35

<210> 2885

<211> 62

<212> PRT

<213> Homo sapiens

<400> 2885

Arg Gly Arg Gly Arg Leu Leu Gly Leu Ser Ser Phe Leu Cys Ile Ile 1 5 10 15

Leu Gly Leu Ala Trp Thr Ala Pro Ala Ser Glu Ser Cys Gly Pro His 20 25 30

Pro Leu Ala Ala Glu Pro Ser Thr Val Ile Leu Gly Ala Ile Phe Pro
35 40 45

Cys Arg Thr Gly Ser Leu Ser Pro Ala Pro Thr Phe Gly Leu 50 55 60

<210> 2886

<211> 62

<212> PRT

<213> Homo sapiens

Leu Gly Leu Ala Trp Thr Ala Pro Ala Ser Glu Ser Cys Gly Pro His 20 25 30

Pro Leu Ala Ala Glu Pro Ser Thr Val Ile Leu Gly Ala Ile Phe Pro 35 40 45

Cys Arg Thr Gly Ser Leu Ser Pro Ala Pro Thr Phe Gly Leu 50 55 60

<210> 2887

<211> 42

<212> PRT

<213> Homo sapiens

<400> 2887

Met Ala Ala Pro Ser Phe Leu Thr Ser Phe Leu Leu Pro Ser Ser Leu

1 5 10 15

Pro Gln Val Leu Ser Arg Glu Thr Pro Phe Pro Ala Ile Ser Ser Gly 20 25 30

Arg Leu Gly Arg Cys Trp Ala Asp Thr Ser 35

<210> 2888

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2888

Met Val Ala Val Trp Trp Phe Ser Leu Val Met Leu Phe Glu Ser Phe 1 5 10 15

Leu Leu Cys Val Ser Ala Leu Pro Val Ser Phe Ile Phe Ser Tyr Ile
20 25 30

Phe Met Met Val Asp Ile Val Leu Leu Leu Pro Asn Val Xaa Leu Pro 35 40 45

<210> 2889

<211> 11

<212> PRT

<213> Homo sapiens

<400> 2889 Met Leu Leu Gly Ile Ser Ala Val Gly Leu Phe 5 <210> 2890

<211> 40 <212> PRT <213> Homo sapiens

<400> 2890 Gly Ile Leu Leu Val Gln Thr Tyr Leu Gly Cys Cys Trp Gly Arg His

Leu Gly Phe Ser Val Ser Cys Ile His Arg Gly Arg Pro Phe Gln Ile

Gln Glu His Trp Ile Arg Glu Ser 35

<210> 2891 <211> 36 <212> PRT

<213> Homo sapiens

<400> 2891

Met Pro Ser Pro Leu Leu Ser Ser Val Asn Thr Asn Thr Phe Pro Thr 5

Pro Leu Cys Ser Arg Arg Pro Val Ala Gly Arg Phe Ser Val Pro Val 20

Val Trp Ile Leu 35

<210> 2892 <211> 28

<212> PRT

<213> Homo sapiens

<400> 2892

Met Asn Asp Pro Pro Thr Ala Pro His Gly Leu Phe Leu Phe Leu Trp

Leu Phe Ser Leu Arg Ser Gly Gly Phe Thr Arg Ile 20

<210> 2893

<211> 46

<212> PRT

<213> Homo sapiens

<400> 2893

Val Tyr Val His Thr Leu Cys Phe Val Cys Val Trp Phe Gly Ala Ala 1 5 10 15

Cys Val Cys Val Cys Val Cys Asp Ile Cys Tyr Ala Cys Val 20 25 30

Cys Gln Cys Val Leu Gly Val Pro Ala Pro Leu Ser Trp Arg 35 40 45

<210> 2894

<211> 119

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2894

Met Gly Ser Ala Leu Gly Leu Ala Gly Ile Ser Gly Ser Leu Gly Ser 1 5 10 15

Gly Ala Arg Leu Arg Trp Ala Arg Ser Arg Thr Gln Gly Ala Gly Leu 20 25 30

Trp Gly Val Leu Ala Ala Gly Ala Val Ser Gly Glu Ser Gln Ser Cys 35 40 45

Arg Ala Xaa Lys Glu Arg Glu Gly Ala Val Xaa Ala Met Pro Pro Val 50 60

Gly Gln Gln Xaa Asn Arg Gln Ala Leu Pro Ala His Pro Pro Thr His 65 70 75 80

Leu Gly Val His Pro Pro His Trp Ala Trp Pro Arg Gln Val Ser Leu 85 90 95

Pro Gly Pro Gly Pro Ala Gln Pro Ala Ser Leu Phe Leu Leu Pro Pro 100 105 110

His Ser Pro Gly Thr Gly Leu 115

<210> 2895

<211> 65

<212> PRT

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<213> Homo sapiens
<400> 2895
Met Trp Gly Arg Arg Gln Cys Ala Leu Trp Met Val Phe Thr Ser Thr
Ala His Thr Thr Leu Gly Ser Arg Pro Ser Thr Lys Gln Glu Ser Ala
Arg Thr Ala Arg Pro Trp Ser Ser Lys Arg Leu Arg Trp Pro Gly Leu
Leu Ser Thr Leu Ala Arg Arg Thr Arg Thr Ser Ser Ser Pro Met Thr
Thr
 65
<210> 2896
<211> 4
<212> PRT
<213> Homo sapiens
<400> 2896
Met Phe Leu Ile
 1
<210> 2897
<211> 17
<212> PRT
<213> Homo sapiens
<400> 2897
Met Phe Leu Phe Cys Ile Phe Ser Ser Pro Ser Pro Leu Thr Gln Arg
                  5
Ile
<210> 2898
<211> 37
<212> PRT
<213> Homo sapiens
<400> 2898
Met Leu Ile Gly Leu Leu Ser Leu Ala Pro Asp Ser Ala Cys Ser Trp
Leu Pro Val Leu Thr Asp His Ile Cys His Cys His Arg Ile Ser Ser
Ala Ser Ala Ser Ala
         35
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<210> 2899
<211> 55
<212> PRT
<213> Homo sapiens
<400> 2899
Met Ala Gly Thr Arg Pro Thr Gly Lys Arg Cys Trp Ser Ile Trp Val
Thr Leu Leu Ile Thr Arg Cys Pro Phe Asp Leu Ala Gly Pro Ala Ser
Leu Leu Met Arg Ser Leu Cys Trp Pro Pro Cys Ser Thr Arg Ser Leu
Pro Ser Val Pro Ala Val Ser
    50
<210> 2900
<211> 33
<212> PRT
<213> Homo sapiens
<400> 2900
Met Ala Arg Gly Gly Thr Trp Trp Ser Leu Leu Ser Phe Trp Thr Trp
Gly Cys Gln Thr Arg Ala His Pro His Thr Arg Pro Gly Pro Leu Arg
Pro
<210> 2901
<211> 8
<212> PRT
<213> Homo sapiens
<400> 2901
Met His Tyr Leu Gln Thr Gly Gly
 1
<210> 2902
<211> 8
<212> PRT
<213> Homo sapiens
<400> 2902
Met His Tyr Leu Gln Thr Gly Gly
                  5
```

<210> 2903

```
<211> 24
<212> PRT
<213> Homo sapiens
<400> 2903
Met Val Ser His Gly Cys His Val Pro Leu Phe Ala Leu Phe Met Val
Leu Pro Ser Ser Gln Gly Leu Pro
             20
<210> 2904
<211> 36
<212> PRT
<213> Homo sapiens
<400> 2904
Met Pro Leu Phe Gly Gly Asn Leu Gly Tyr Ala Trp Ala Trp Phe Thr
Pro Ile Thr Trp Val Ala Val Leu Ala His Leu Ile Val Ser Ser Ile
His Pro Gly Lys
         35
<210> 2905
<211> 41
<212> PRT
<213> Homo sapiens
<400> 2905
Met Ala Arg Val Ser Ala Arg Trp Arg Ser Leu Leu Ala Trp Trp Val
Ser Ser Cys Pro Ile Ser Leu Glu Gly Arg Ala Gly Ser His Glu His
Gly Glu Tyr Pro Trp Met Leu His Ser
         35
<210> 2906
<211> 33
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids
Phe Leu Phe Trp Gly Val Met Lys Ile Leu Gly Cys Ala Pro Ile Phe
                                      10
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Ser Phe Leu Arg Leu Ser Leu Ile Xaa Asp Arg His Leu Gly Val Val 20 25 30

Phe

<210> 2907

<211> 123

<212> PRT

<213> Homo sapiens

<400> 2907

Met Ala Phe Leu Ser Phe Cys Cys Cys Ala Phe Ala Leu Tyr Tyr Trp 1 5 10 15

Ser Ser Ala Phe Ser Leu Ser Ile Val Phe Phe Leu Tyr Arg Ile 20 25 30

Tyr Thr Pro Lys Phe Phe His Leu Ala Ser Ser His Asn Leu Thr Ser 35 40 45

Pro Ser Gly Ser Cys Pro Val Phe Leu Leu Leu Phe Ile Leu Ser Leu 50 55 60

Lys Gly Arg Val Tyr Ser His Tyr Leu His Phe Ser Thr Cys His Leu 65 70 75 80

Ala Phe His Pro Leu Gln Pro Glu Phe Asp Pro Gln Asn Ser Thr Glu 85 90 95

Thr Thr Leu Ser Lys Ala Thr Asn Tyr Cys Leu Ile Val Lys Val Asn 100 105 110

Gly Leu Phe Phe Ile Phe Ile Ile Tyr Gly Ile 115 120

<210> 2908

<211> 37

<212> PRT

<213> Homo sapiens

<400> 2908

Met Asn Ile Val Trp Phe Val Met Ser His Met Cys Phe Lys Met Ala 1 5 10 15

Leu Cys Leu Gly Leu Pro Tyr Val Asn Gly Ser Cys Val Cys Leu Leu 20 25 30

Phe Lys Pro Trp Glu 35

<210> 2909

<211> 16

<212> PRT

<213> Homo sapiens

<210> 2910 <211> 182 <212> PRT

<213> Homo sapiens

<400> 2910

Met Thr Leu Ala Ala Tyr Lys Glu Lys Met Lys Glu Leu Pro Leu Val 1 5 10 15

Ser Leu Phe Cys Ser Cys Phe Leu Ala Asp Pro Leu Asn Lys Ser Ser 20 25 30

Tyr Lys Tyr Glu Ala Asp Thr Val Asp Leu Asn Trp Cys Val Ile Ser 35 40 45

Asp Met Glu Val Ile Glu Leu Asn Lys Cys Thr Ser Gly Gln Ser Phe 50 55 60

Glu Val Ile Leu Lys Pro Pro Ser Phe Asp Gly Val Pro Glu Phe Asn 65 70 75 80

Ala Ser Leu Pro Arg Arg Arg Asp Pro Ser Leu Glu Glu Ile Gln Lys 85 90 95

Lys Leu Glu Ala Glu Glu Arg Arg Lys Tyr Gln Glu Ala Glu Leu 100 105 110

Leu Lys His Leu Ala Glu Lys Arg Glu His Glu Arg Glu Val Ile Gln
115 120 125

Lys Ala Ile Glu Glu Thr Thr Thr Ser Ser Arg Trp Leu Arg Lys Asn 130 135 140

Trp Pro Arg Arg Trp Asn Pro Thr Arg Arg Thr Gly Arg Pro Thr Ser 145 150 155 160

Pro Pro Cys Trp Asn Gly Cys Lys Arg Arg Thr Ser Thr Pro Arg Arg 165 170 175

Cys Gly Lys Thr Arg Ser 180

<210> 2911

<211> 120

<212> PRT

<213> Homo sapiens

<400> 2911

Ala Thr Ala Leu Pro Ser Met Ser Ser Thr Phe Trp Ala Phe Met Ile

1				5					10					15	
Leu	Ala	Ser	Leu 20	Leu	Ile	Ala	Tyr	Cys 25	Ser	Gln	Leu	Ala	Ala 30	Gly	Thr
Cys	Glu	Ile 35	Val	Thr	Leu	Asp	Arg 40	Asp	Ser	Ser	Gln	Pro 45	Arg	Arg	Thr
Ile	Ala 50	Arg	Gln	Thr	Ala	Arg 55	Cys	Ala	Cys	Arg	Lys 60	Gly	Gln	Ile	Ala
Gly 65	Thr	Thr	Arg	Ala	Arg 70	Pro	Ala	Cys	Val	Asp 75	Ala	Arg	Ile	Ile	Lys 80
Thr	Lys	Gln	Trp	Cys 85	Asp	Met	Leu	Pro	Cys 90	Leu	Glu	Gly	Glu	Gly 95	Cys
Asp	Leu	Leu	Ile 100	Asn	Arg	Ser	Gly	Trp 105	Thr	Cys	Thr	Gln	Pro 110	Gly	Gly
Arg	Ile	Lys 115	Thr	Thr	Thr	Val	Ser 120								
<210> 2912 <211> 36 <212> PRT <213> Homo sapiens															
<40 Met 1	0> 2: Arg	912 Asn	Ala	Leu 5	His	Ser	Met	Asn	Ile 10	Asn	Phe	His	Leu	Pro 15	Phe
Phe	Leu	Val	Phe 20	Ile	Leu	Leu	Phe	Ile 25	Leu	Leu	Leu	Ile	His 30	Asp	Ser
Tyr	Thr	Tyr 35	Leu												
<21 <21	0> 2 1> 1 2> P 3> H	5 RT	sapi	ens											
<40 Met 1		913 Ser	Asp	Thr 5		ı Pro	Phe	Phe	Leu 10		Leu	. Leu	Ala	Ala 15	
<21 <21	.0> 2 .1> 4 .2> P .3> H	8 RT	sapi	ens											
<40 Gly 1		914 Pro	Ser	Leu 5		ı Pro	туг	Ser	Cys		Arg	, Phe	e Ser	Gly 15	Leu

Asn Gln Val Asn Arg Gly Pro Glu Pro Pro Leu Cys Leu Leu Glu Ile 20 25 30

Pro Lys Thr Glu Met Cys Ser Arg Ser Arg Ser Lys Thr Leu Ser Leu 35 40 45

<210> 2915

<211> 37

<212> PRT

<213> Homo sapiens

<400> 2915

Met Arg Ser Leu Gly Ser Thr Leu Val Ser Asp Thr Trp Asp Arg Gly
1 5 10 15

Ala Phe Ala Thr Leu Val Val Val Thr Pro Pro His Leu Pro Ala Ser 20 25 30

Phe Thr Asp Ser Lys 35

<210> 2916

<211> 40

<212> PRT

<213> Homo sapiens

<400> 2916

Met Cys Lys Met Phe Asn Leu Pro Phe Leu Leu Leu Val Ser Val Ala 1 5 10 15

Leu Trp Cys Lys Gln Leu Lys Thr Leu Asn Val Tyr Thr Ile Arg Pro 20 25 30

Arg Arg Gln Met Lys Tyr Phe Phe 35 40

<210> 2917

<211> 36

<212> PRT

<213> Homo sapiens

<400> 2917

Met Thr Asn Leu Val Ile Ser Phe Thr Leu Arg Phe Ser Ser Phe Pro 1 5 10 15

Val Leu Pro Phe Cys Leu Leu Leu Cys Asn Ile Ala Phe Gly Leu Asn 20 25 30

Asn Thr Phe Ser

<210> 2918 <211> 39 <212> PRT

<213> Homo sapiens

<400> 2918

Met Thr Arg Pro Thr Ile Val Ser Ser Cys Leu Trp Ala Val Arg Gln
1 5 10 15

Leu Val Gly Thr Arg Ser Asn Pro Arg Phe Phe Leu Gln Tyr Ser Gly 20 25 30

Tyr Asn Leu Ser Trp Leu Leu 35

<210> 2919

<211> 182

<212> PRT

<213> Homo sapiens

<400> 2919

Met Ala Ala Leu Ala His Glu Ala Val Gly Thr Arg Asp Leu Leu Ala 1 5 10 15

Ala Gly Cys Cys Leu Ala Arg Trp Gly Ser Met Glu Glu Leu Gly
20 25 30

Leu Pro Pro Arg Pro Ala Pro Ala Ala Arg Met Leu Gly Ser His Gly
35 40 45

Gly Thr Arg Pro Gly Ala Pro Ala Ser Pro Ser Gly Trp Cys Gly Gln 50 55 60

Leu Phe Pro Ala Ser Gln Cys Pro Gly Gly Ser Cys Leu Ala Asp Ser 65 70 75 80

Ala Trp Ser Pro Ala Gly Phe Arg Lys Thr Gln Leu His Val Trp Asp 85 90 95

Ser Ser Pro Ala Leu Gly Cys Gly Val Ser Val His Leu Arg Ala Gly 100 105 110

Gly Pro Thr His Arg Leu Pro Leu Gln Val His Pro Arg Ala Trp Ala 115 120 125

Arg Trp Ala Pro Gly Thr Trp Pro Ala Asp Ala Ala Thr Ser Asp Gln
130 135 140

Cys Cys Val Glu Glu Pro Arg Ala Ala Pro Gly Lys Pro Gly Phe Asn 145 150 155 160

Ser Thr Arg Lys Arg Asn Leu Leu Cys Phe Val Arg Ala Cys Ser Phe 165 170 175

Ser Ser Phe Leu Ser Leu 180

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<210> 2920
<211> 142
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids
Met Xaa Ala Leu Ala His Glu Ala Val Gly Thr Arg Asp Leu Leu Ala
Ala Gly Cys Cys Leu Ala Arg Trp Gly Ser Met Glu Glu Leu Gly
Leu Pro Pro Arg Pro Ala Pro Ala Ala Arg Met Leu Gly Ser His Gly
Gly Thr Arg Pro Gly Ala Pro Ala Ser Pro Ser Gly Trp Cys Gly Gln
Leu Phe Pro Ala Ser Gln Cys Pro Gly Gly Ser Cys Leu Ala Asp Ser
Ala Trp Ser Pro Ala Gly Phe Arg Lys Thr Gln Leu His Val Trp Asp
Ser Ser Pro Ala Leu Gly Cys Gly Val Ser Val His Leu Arg Ala Gly
                                 105
            100
Gly Pro Thr His Arg Leu Pro Leu Gln Val His Pro Arg Ala Trp Gly
                            120
Pro Leu Gly Thr Trp His Leu Ala Cys Arg Cys Cys Tyr Glu
                         135
<210> 2921
 <211> 35
 <212> PRT
 <213> Homo sapiens
 <400> 2921
 Met Leu Arg Val Phe Phe Phe Ser Leu Val Val Gly Thr Ser Thr Ala
                                     10
 Arg Thr Ile Ser Tyr Ser Ser Leu His Pro Trp His Met His Glu Asn
```

<210> 2922 <211> 57

Ile Ser Thr

20

<221> SITE

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<212> PRT
<213> Homo sapiens
<400> 2922
Met Tyr Trp Cys Thr Tyr Cys Met Glu Ala Trp Leu Ser Ser Gln Gln
Leu Val Leu His Arg Asn Met Arg Pro Cys Ile Phe Gln Met Phe Ser
Leu Ser Arg Leu Phe Thr Met Glu Ser Thr Thr Ser Cys Thr His Ser
                              40
Cys Cys Ser Ser Ala Met Ala Ser Pro
     50
<210> 2923
<211> 27
<212> PRT
<213> Homo sapiens
<400> 2923
Met Pro Ala Ser Leu Arg Asn Pro Thr Val Leu His Met Leu Ser Asn
                                      10
Thr Ile Phe Ser Tyr Pro Leu Ser Leu Pro Cys
             20
<210> 2924
<211> 40
<212> PRT
<213> Homo sapiens
<400> 2924
Gly Cys His His Leu Phe Leu Tyr Ile Phe Cys Asn Ile Leu Lys Leu
Leu Pro Ser Leu Ile Ile Ile Ser Val Cys Val Cys Lys Asp Asn Gln
              20
Ala Phe Lys Phe Ile Lys His Val
         35
 <210> 2925
 <211> 244
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> SITE
 <222> (78)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
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<222> (222) <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2925

Met His Leu Ala Leu Tyr Cys Phe Ala Ser Ser Gln Leu Ser Thr Ala 1 5 10 15

Leu Ser Leu Leu Tyr Arg Ala Arg Tyr Leu Met Leu Leu Val Phe Gly 20 25 30

Glu Asp His Pro Glu Met Ala Leu Leu Asp Asn Asn Ile Gly Leu Val 35 40 45

Leu His Gly Val Met Glu Tyr Asp Leu Ser Leu Arg Phe Leu Glu Asn 50 60

Ala Leu Ala Val Ser Thr Lys Tyr His Glý Pro Lys Ala Xaa Lys Val 65 70 75 80

Ala Leu Ser His His Leu Val Ala Arg Val Tyr Glu Ser Lys Ala Glu 85 90 95

Phe Arg Ser Ala Leu Gln His Glu Lys Glu Gly Tyr Thr Ile Tyr Lys 100 105 110

Thr Gln Leu Gly Glu Asp His Glu Lys Thr Lys Glu Ser Ser Glu Tyr 115 120 125

Leu Lys Cys Leu Thr Gln Gln Ala Val Ala Leu Gln Arg Thr Met Asn 130 135 140

Glu Ile Tyr Arg Asn Gly Ser Ser Ala Asn Ile Pro Pro Leu Lys Phe 145 150 155 160

Thr Ala Pro Ser Met Ala Ser Val Leu Glu Gln Leu Asn Val Ile Asn 165 170 175

Gly Ile Leu Phe Ile Pro Leu Ser Gln Lys Asp Leu Glu Asn Leu Lys 180 185 190

Ala Glu Val Ala Arg Arg His Gln Leu Gln Glu Ala Ser Arg Asn Arg 195 200 205

Asp Arg Ala Glu Glu Pro Met Ala Thr Glu Pro Ala Pro Xaa Gly Ala 210 215 220

Pro Gly Asp Leu Gly Ser Gln Pro Pro Ala Ala Lys Asp Pro Ser Pro 225 230 235 240

Ser Val Gln Gly

<210> 2926

<211> 48

<212> PRT

<213> Homo sapiens

<400> 2926

His Leu Gln His Cys Val Ser Cys Gly Cys Ala Val Thr Gly Ile Lys

1 5 10 15

Ser Ser Ala Phe Asn Ala Lys Gly Ser Glu Ile Phe Leu Lys Leu Ile 20 25 30

Ser Cys Pro Met Gln Val Phe Ser Thr Thr Cys Ile Thr Ser Thr Leu $35 \hspace{1.5cm} 40 \hspace{1.5cm} 45$

<210> 2927

<211> 71

<212> PRT

<213> Homo sapiens

<400> 2927

Met Val Gln His Lys Thr Thr Phe Gln Val Leu Phe Leu Phe Gly Val 1 5 10 15

Ser Phe Gln Val Phe Lys Cys Ile Ser Gln Pro Glu His Leu Phe Asn 20 25 30

His Ile His Gly Ser Leu Leu Asn Ala Glu Leu Leu His Met Leu Asp $35 \hspace{1cm} 40 \hspace{1cm} 45$

Leu Lys Ile Ile Ile Glu Glu Thr Ile Gly Leu Val Val Pro Arg
50 55 60

Lys Val Ser Asp Val Tyr Val 65 70

<210> 2928

<211> 44

<212> PRT

<213> Homo sapiens

<400> 2928

Asp Leu Gln Ile Gln Trp Pro Ile Leu Leu Ser Leu Ser Cys Glu Gly
1 5 10 15

Val Phe Gln Val Leu Lys Gln Ser Lys Asn His Leu Gly Pro Ser Leu 20 25 30

Arg Lys His Phe Ser Gly Gln Val Gly Phe Arg Leu
35 40

<210> 2929

<211> 14

<212> PRT

<213> Homo sapiens

<400> 2929

Gly Phe Tyr Thr Phe Leu Pro Ser Leu Pro Gly Ala Leu Tyr 1 5 10

```
<210> 2930
<211> 139
<212> PRT
<213> Homo sapiens
<400> 2930
Met Lys Lys Ile Val Asp Gln Asn Thr Lys Leu Ala Pro Glu Thr Lys
Ala Val Ile His Trp Ile Met Asp Ile Pro Phe Val Leu Ser Ala Asn
Leu His Gly Gly Asp Leu Val Ala Asn Tyr Pro Tyr Asp Glu Thr Arg
Ser Gly Ser Ala His Glu Tyr Ser Ser Ser Pro Asp Asp Ala Ile Phe
Gln Ser Leu Ala Arg Ala Tyr Ser Ser Phe Asn Pro Ala Met Ser Asp
Pro Asn Arg Pro Pro Cys Arg Lys Asn Asp Asp Asp Ser Ser Phe Val
                                      90
Asp Gly Thr Thr Asn Gly Val Leu Gly Thr Ala Tyr Leu Glu Gly Cys
            100
Lys Thr Ser Ile Thr Leu Ala Ala Thr Val Leu Arg Ser Pro Trp Ser
                            120
Leu Ala Val Arg Ser Ser His Leu Lys Arg Leu
                        135
    130
```

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<210> 2931
<211> 2
<212> PRT
<213> Homo sapiens
<400> 2931
Met Tyr
```

```
<210> 2932
<211> 9
<212> PRT
<213> Homo sapiens
<400> 2932
Met Arg Phe Leu Phe Ile Phe Cys Phe
1 5
```

<210> 2933

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<211> 12
<212> PRT
<213> Homo sapiens
<400> 2933
Met Glu Arg Val Arg Thr Ser Met Glu Cys Phe Cys
<210> 2934
<211> 48
<212> PRT
<213> Homo sapiens
<400> 2934
Met Leu Val Ile Leu Leu Asp Met Phe Phe Val Val Val Thr Trp
Asn Phe Cys Ile Leu Asn Lys Phe Gly Asp Gln Ile Gln Lys Lys
<210> 2935
<211> 31
<212> PRT
<213> Homo sapiens
<400> 2935
Met Val Ile Trp Ser Thr Tyr Asp Thr Leu Ala Val Leu Ile Phe Gly
Val Leu Ala Leu Val Leu Ser His Leu His Val Trp Val Phe Leu
                              25
            20
<210> 2936
<211> 48
<212> PRT
<213> Homo sapiens
<400> 2936
Glu Leu Ser Cys Trp Gln Asp Leu Leu Glu Leu Ala Arg Gln Leu Trp
Leu Trp Leu Leu Arg Ser Trp Val Val Arg Ser Pro Ser Ala Gln
```

Trp Trp Gly Val Lys Phe Thr Gln Leu Arg Ser Arg Arg Gln Arg Cys 40

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<210> 2937
<211> 59
<212> PRT
<213> Homo sapiens
<400> 2937
Met Gly Gly His Gly Ser Ala Gly Leu Cys Leu Lys His Thr Leu Gln
Leu Gln Leu Phe Ser Leu Val Phe Cys Leu Lys Leu Ile Leu Thr Glu
Ser Asp Phe Val Phe Ile Ser Phe Gln Gly Leu Gly Cys Leu Trp Ala
Ser Pro Gly Gly Leu Glu Val Gly Lys Gly Lys
<210> 2938
<211> 1
<212> PRT
<213> Homo sapiens
<400> 2938
Phe
  1
<210> 2939
<211> 44
<212> PRT
<213> Homo sapiens
<400> 2939
Met Ser Gly Leu Ser Gly Ala Pro Trp Gly Thr Trp Ala Leu Pro Leu
Ala His Leu Ser Leu Leu Ser Arg Thr Cys Leu Ser Ser Pro Leu
             20
Gly Phe Arg Leu Phe Ser Arg His Leu Arg His Leu
         35
<210> 2940
<211> 38
<212> PRT
<213> Homo sapiens
<400> 2940
Met Leu Ser Leu Pro Ala Pro Leu Arg Val Asn Arg Gly Leu Trp Gln
                                      10
                   5
Leu Cys Thr Gly Ala Gly Leu Trp Leu Leu Gln Gly Ala Leu Pro Val
```

20 25 30

Thr Arg Ser Trp Ala Val

<210> 2941

<211> 40

<212> PRT

<213> Homo sapiens

<400> 2941

Met Ala Gly Val Ser Thr Ser Pro Gly Pro Phe Leu Arg Tyr Leu Pro
1 5 10 15

Ala Cys Leu Pro Glu Leu Thr Cys Arg Pro Arg Lys Met Leu Thr Glu 20 25 30

Val Leu Leu Glu Val Ala Pro Ala 35 40

<210> 2942

<211> 133

<212> PRT

<213> Homo sapiens

<400> 2942

Met Phe Thr Asp Leu Ser Ser Ser Trp Cys Met Thr Met Thr Pro Val 1 5 10 15

Gly Ser Met Thr Ser Ser Ala Ser Ser Pro Ala Leu Ser Arg Arg Cys 20 25 30

Arg Lys Gly Arg Gln Thr Leu Gly Arg Arg Cys Ser Gly Thr Val Ser 35 40 45

Thr Gln Val Ser Gly Gln Glu Glu Glu Leu Gln Glu Leu Arg Asp Gly 50 55 60

Ser Ala Gly Pro Val His Gly Gly Glu Gly Ala His Leu Pro Gly Leu 65 70 75 80

His His Gly Trp Leu Pro Asp Gln Leu His Gly Gly His Arg Leu His 85 90 95

Arg Leu Gln Trp Gly Pro Glu Glu Gln Pro Val Pro Ala Leu Pro Gln
100 105 110

Ser Pro Thr Ala Gln Pro Leu Pro Ala Gly Pro Ala Cys Ser Gly Arg 115 120 125

His Leu Pro Gly Leu 130

<210> 2943

<211> 8

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<212> PRT
<213> Homo sapiens
<400> 2943
Trp Ala Phe Ser Ala Trp Leu Leu
<210> 2944
<211> 9
<212> PRT
<213> Homo sapiens
<400> 2944
Ile Phe Leu Ile Leu Leu Ile Cys Val
              5
<210> 2945
<211> 29
<212> PRT
<213> Homo sapiens
<400> 2945
Arg Val Phe Leu Asn His Glu Leu Tyr His Val Thr Phe Leu Leu Val
                                     10
Lys Leu Ser Val Ala Leu His Cys Gln Gln Ser Pro Ala
<210> 2946
<211> 90
<212> PRT
<213> Homo sapiens
<400> 2946
Met Ala Asp Arg Ala Pro Arg Gln Pro Thr Ser Leu Gly Ser Ser Pro
Gln Arg Cys Gly Ser Pro Pro Ser Ala Pro Pro Pro Pro Pro Asp Arg
Gly Glu Arg Ile Glu Asp Cys Leu Ala Pro Leu Cys Pro Pro Val Val
Gly Gly Arg Gly Gly Cys Ala Leu Ser Arg Phe Leu Pro Val Asp Leu
Ser Leu Leu Arg Ser Ser Arg Thr Ala Ala Val Glu Leu Val Ala Gly
Gly Val Cys Arg Ser Pro Ser Gln Glu Asn
                 85
```

<210> 2947

<210> 2948 <211> 42 <212> PRT <213> Homo sapiens

Leu Cys Leu Ser Leu Thr Glu Ile Ile Glu Leu Leu Ser Ser Lys 20 25 30

Leu Asn Lys Thr Leu Glu Leu Lys Ala Ser 35 40

<210> 2949 <211> 6 <212> PRT <213> Homo sapiens <400> 2949 Gly Val Ser Leu His Gln

<210> 2950 <211> 66 <212> PRT <213> Homo sapiens <400> 2950

Met Gly Ser Arg Leu Ala Pro Leu Leu Ser Ala Cys Leu Phe Val Ser 1 5 10 15

Val Ile Leu Gly Arg Met Val Ile Leu Lys Asn Pro Gly Val Leu Gly 20 25 30

Gln Arg Gln Ala Gly Pro Ser Pro Gly Ala Pro Gly Leu Pro Ser Pro 35 40 45

Ser Val Arg Ala Pro Leu Gly His Lys Cys Ser Glu Arg Ser Pro Ser 50 55 60

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Ala Thr
 65
<210> 2951
<211> 87
<212> PRT
<213> Homo sapiens
<400> 2951
Met Glu Gly Pro Leu Gln Ser Phe Lys Arg Arg Leu Trp Gly Gly Val
Glu Cys Ala Leu Gly Leu Asp Thr Cys Arg Gly Ala Pro Gly Trp Pro
Arg Arg Leu Ala Leu Ala Arg Gly Pro Val Leu Arg Gly Pro Gln Arg
Leu Thr Leu Gly Gln Ala Pro Ala Arg Arg Gly Arg Ser Pro Gly Leu
Pro Gly Arg His Val His Ile Ala Ile Ala Thr Arg Gln Leu Arg Leu
                                          75
Gly Phe Thr Lys Ser Leu Pro
<210> 2952
<211> 22
<212> PRT
<213> Homo sapiens
<400> 2952
Met Leu Met Pro Pro Pro Pro Pro Ala Arg Leu Phe Phe Leu Tyr Phe
Val Leu Phe Leu Leu Gly
             20
<210> 2953
<211> 46
<212> PRT
<213> Homo sapiens
<400> 2953
Met Arg Leu Gly Ile Ser Glu Leu Ser Phe Leu Leu Gly Ala Leu Gly
                                     10
```

Tyr Leu Ser Leu Pro Arg Val Gly Pro Leu Glu Pro Phe Leu Pro Trp

Val Gly Ala Val Ser Gly Cys Trp Glu Gly Leu Cys Trp Pro

<210> 2954 <211> 51 <212> PRT <213> Homo sapiens <400> 2954 Met Thr Thr Ser Gln Ala Ile Ser Cys Leu Ala His Trp Ala Cys Ala Trp Glu Thr Ala Cys Cys Trp Met Ala Arg Arg Arg Ala His Cys Gly Ser Val Gly Pro Arg Ser Leu Pro Ala Ala Val Gly Gly Arg Gly Ala 40 Gly Arg Thr 50 <210> 2955 <211> 66 <212> PRT <213> Homo sapiens <400> 2955 Met Val Leu Tyr Leu Ser Ser His Trp Phe Ser Pro His Val Leu Ser Pro His Glu Val Val Leu Cys Leu Leu Ser Val Val Leu Val Leu Ala Thr Trp Ser Pro Asp Leu Gln Ile Trp Leu Pro Pro Pro Gly Pro Phe Gln Leu Leu Ile Cys Val Phe Tyr Gly Gly Ala Gly Lys Arg Trp His Leu 65 <210> 2956 <211> 66 <212> PRT <213> Homo sapiens <400> 2956 Met Val Leu Tyr Leu Ser Ser His Trp Phe Ser Pro His Val Leu Ser 5 Pro His Glu Val Val Leu Cys Leu Leu Ser Val Val Leu Val Leu Ala 2.5

Thr Trp Ser Pro Asp Leu Gln Ile Trp Leu Pro Pro Pro Gly Pro Phe 40

Gln Leu Leu Ile Cys Val Phe Tyr Gly Gly Ala Gly Lys Arg Trp

50 55 60 His Leu 65

<210> 2957 <211> 66 <212> PRT <213> Homo sapiens

ZIS Homo Bapion

<400> 2957
Met Val Leu Tyr Leu Ser Ser His Trp Phe Ser Pro His Val Leu Ser
1 5 10 15

Pro His Glu Val Val Leu Cys Leu Leu Ser Val Val Leu Val Leu Ala 20 25 30

Thr Trp Ser Pro Asp Leu Gln Ile Trp Leu Pro Pro Pro Gly Pro Phe 35 40 45

Gln Leu Leu Ile Cys Val Phe Tyr Gly Gly Ala Gly Lys Arg Trp 50 55 60

His Leu 65

<210> 2958 <211> 22 <212> PRT

<213> Homo sapiens

<400> 2958

Met Val Cys Cys Trp Arg Gly Cys Cys Trp Ser Trp Ser Ile Val Leu 1 5 10 15

Leu Trp Leu Gly Thr Val

<210> 2959 <211> 60 <212> PRT

<213> Homo sapiens

<400> 2959

Met Lys Asn Ser Leu Ala Ala Gln Gln Ser Phe Ser Ala Cys Ser Gln 1 5 10 15

Ile Gly Glu Val Ser Thr Cys Tyr Ser Leu Cys Arg Arg Pro Ser Phe 20 25 30

Leu Leu Cys Phe Pro Ser Leu Val Phe Pro Pro Ala Gly Ser Trp Ala 35 40 45

Gly Val Pro Gly Cys Leu Pro Glu Ser Arg Leu His 50 55 60

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<210> 2960
<211> 60
<212> PRT
<213> Homo sapiens
<400> 2960
Met Lys Asn Ser Leu Ala Ala Gln Gln Ser Phe Ser Ala Cys Ser Gln
Ile Gly Glu Val Ser Thr Cys Tyr Ser Leu Cys Arg Arg Pro Ser Phe
                                  25
Leu Leu Cys Phe Pro Ser Leu Val Phe Pro Pro Ala Gly Ser Trp Ala
                              40
Gly Val Pro Gly Cys Leu Pro Glu Ser Arg Leu His
                          55
<210> 2961
<211> 76
<212> PRT
<213> Homo sapiens
<400> 2961
Val Gly His His Ser Arg Pro Trp Thr Ser Pro Asn Leu Gly Thr Ala
                  5
Leu Phe Pro Asn Val Ser Ile Leu Leu Thr Gly Ala Ser Ser Ala Gln
                                  25
Pro Trp Glu Pro Ile Gln Gly Leu Val Arg Thr Gly Leu Pro Gly Val
                              40
Gly Val Trp Gly Val Pro Ser Gly Val Ile Asp Ser Pro Thr Ala Pro
                          55
Ala Leu Thr Gly Pro Gln Val Ala Ala Met Val Asn
                     70
 65
 <210> 2962
 <211> 32
 <212> PRT
 <213> Homo sapiens
 <400> 2962
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Lys Asn Met Ala Ser Arg Gln Ser Lys Leu Ser Arg Gln Trp Gly Trp
20 25 30

Trp Ala Leu Ala Leu Ala Thr His Phe Leu Gln Asn Leu Gly Phe Gly

```
<210> 2963
<211> 29
<212> PRT
<213> Homo sapiens
<400> 2963
Met Glu Leu Leu Phe Phe Leu Leu Leu Pro Tyr Phe Leu Leu Phe Ile
      5
Cys Leu Ile Ser Cys Ile Ser Gln Ile Tyr Ile Tyr Leu
             20
<210> 2964
<211> 64
<212> PRT
<213> Homo sapiens
<400> 2964
Met Pro Ser Phe Ile Ile His Ser Asn Pro Ile Trp Leu Gly Ala Leu
Leu Trp Val Ser His Cys Pro Ser Ser Ile Leu Gly Ser Leu Arg Pro
Arg Gly Gly Lys Ile Gln Leu Arg Val Gly Gly Ser Glu Pro Arg Arg
                             40
Ile Met Lys Ala Thr Cys Phe Gly Asn Asp Leu Pro Leu Pro Val Val
                         55
```

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<210> 2966
<211> 129
<212> PRT
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<213> Homo sapiens

Pro Leu Val Phe Val Ser Leu Phe Ser Pro Leu Ala Leu Pro Gly Ser 20 25 30

Pro Leu Ala Leu Pro Arg Gly Trp Phe Ser Ala Trp Ala Leu Ala Asp 35 40 45

Val Ser Val Ala Ala Gly His Thr Asp Arg Ser Gly Leu Gly Ser Val 50 55 60

Leu Arg Asp Leu Val Lys Pro Gly Asp Glu Asn Leu Arg Glu Met Asn 65 70 75 80

Lys Lys Leu Gln Asn Met Leu Glu Glu Gln Leu Thr Lys Asn Met His 85 90 95

Leu His Lys Asp Met Glu Val Leu Ser Gln Glu Ile Val Arg Leu Ser 100 105 110

Lys Glu Cys Val Gly Pro Pro Asp Pro Asp Leu Glu Pro Gly Glu Thr 115 120 125

Ser

<210> 2967

<211> 66

<212> PRT

<213> Homo sapiens

<400> 2967

Met Cys Cys Pro Ser Leu Leu Lys Phe Tyr Phe Arg Phe Ser Ile Gly 1 5 10 15

Tyr Leu Phe Cys Phe Leu Tyr Phe Phe Ser Leu Ser Leu Pro Pro Ser 20 25 30

Arg Pro Pro Arg Pro Ile Pro Phe Leu Pro Leu Asp Phe His Pro Leu 35 40 45

Gly Cys Leu Ala His Leu Tyr Ala Pro Ala Leu Gly Thr Gly Pro Asn 50 55 60

Thr Trp 65

<210> 2968

<211> 55

<212> PRT

<213> Homo sapiens

<400> 2968

Met Ser Val Gly Leu Ser Ser Ser Phe Leu Ile Leu Phe Met Pro Cys

1 5 10 15

Gln Val Tyr Cys Leu Tyr Pro Leu Val Asn Phe Phe Ile Ser Val Ile 25 Ile Arg Leu Lys Lys Lys Lys Lys Lys Lys Glu Ser Ser Leu Leu 40 Gly Asn Ala Trp Thr Leu Cys <210> 2969 <211> 46 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (13) <223> Xaa equals any of the naturally occurring L-amino acids Met His Leu Ile Ile Phe Phe Leu Ser Leu Leu Cys Xaa Phe Leu Lys Leu Pro Pro Lys Tyr Leu Ser Thr Pro Leu Asn Val Trp Ser Gln Asp Lys Phe Leu Ile Leu Ala Leu Gln Phe Lys Met Tyr Lys Lys 35 <210> 2970 <211> 1 <212> PRT <213> Homo sapiens <400> 2970 Leu 1 <210> 2971 <211> 40 <212> PRT <213> Homo sapiens Met Val Ile Val Asn Ile Leu Ile Leu Cys Phe Leu Leu Thr Ser Asp

Asp Tyr Asn Ser Met Asp Asn Leu Asn Leu Gly Gly Arg Glu Glu Asp

Ala Glu Leu Ser Val Asn Leu Ala 35 40

<210> 2976

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<210> 2972
<211> 34
<212> PRT
<213> Homo sapiens
<400> 2972
Leu Glu Leu Thr Val Leu Ser Ser Leu Arg Thr Phe Glu Tyr Thr Leu
Pro Ile Ser Leu Pro Tyr Phe Leu Phe Ala Ala Phe Ala Leu Glu Leu
                                 25
Cys Phe
<210> 2973
<211> 21
<212> PRT
<213> Homo sapiens
<400> 2973
Asp Cys Pro Ala Arg Ala Ala Pro Gln Pro Ala Asp Leu Thr Ala Ala
Pro Ala Ser Val Ala
             20
<210> 2974
<211> 35
<212> PRT
<213> Homo sapiens
<400> 2974
Met Thr Met Lys Leu Ser Val Phe Leu Ser Val Gln Asn Leu Gly Leu
                                     10
Leu Ser Val Val Leu Lys Arg Ala Leu Ala Leu Ser Thr Pro Ser Leu
                                  25
             20
Glu Ile Cys
         35
<210> 2975
<211> 1
<212> PRT
<213> Homo sapiens
<400> 2975
Met
 1
```

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<211> 28
<212> PRT
<213> Homo sapiens
<400> 2976
Met Val Leu Phe Asn Ala His Gly Cys Phe Leu Ile Cys Gly Leu Leu
Val Ser Arg Ala Met His Asn Val Ser Glu Gly Ser
<210> 2977
<211> 4
<212> PRT
<213> Homo sapiens
<400> 2977
Phe Gly Phe Val
 1
<210> 2978
<211> 1
<212> PRT
<213> Homo sapiens
<400> 2978
Met
  1
<210> 2979
<211> 17
<212> PRT
<213> Homo sapiens
Met Val Gly Leu Trp Phe Val Phe Ser Leu Tyr Ser Leu Val Thr Phe
Leu
<210> 2980
<211> 38
<212> PRT
<213> Homo sapiens
<400> 2980
Met Leu Gly Cys Leu Leu Val Val Phe Leu Cys Cys Leu Ile Leu Gly
               . 5
                                      10
Lys Leu Cys Lys Ala Lys Asn Pro Val Asn Thr Ile Leu Ser Phe
                                  25
```

Thr Gly Arg His Tyr Trp 35

<210> 2981

<211> 13

<212> PRT

<213> Homo sapiens

<400> 2981

Gly Asn Ser Leu Thr Leu Ala Ile Leu Leu Leu Ser Phe
1 5 10

<210> 2982

<211> 59

<212> PRT

<213> Homo sapiens

<400> 2982

Met Trp Arg Leu Ala Pro Arg Arg Leu Arg Gln Val His Ala Lys Pro 1 5 10 15

Ala Trp Leu Ser Ser Gly Phe Leu Leu Thr Arg Trp Met Pro Val Pro 20 25 30

Arg Pro Pro Asp Arg Ala Leu Gln His Trp Arg Gly Leu Trp Trp Gly 35 40 45

Pro Arg Cys Arg Thr Gly Thr Ala Ser Ala His 50 55

<210> 2983

<211> 670

<212> PRT

<213> Homo sapiens

<400> 2983

Asp Cys Val Leu Val Leu Leu Leu Met Pro Arg Leu Ile Cys Lys Ala 1 5 10 15

Glu Leu Ile Arg Lys Gln Ala Gln Glu Lys Phe Glu Leu Ser Glu Asn 20 25 30

Cys Ser Glu Arg Pro Gly Leu Arg Gly Ala Ala Gly Glu Gln Leu Ser 35 40 45

Phe Ala Ala Gly Leu Val Tyr Ser Leu Ser Leu Leu Gln Ala Thr Leu 50 55 60

His Arg Tyr Glu His Ala Leu Ser Gln Cys Ser Val Asp Val Tyr Lys 65 70 75 80

Lys Val Gly Ser Leu Tyr Pro Glu Met Ser Ala His Glu Arg Ser Leu 85 90 95

Asp Phe Leu Ile Glu Leu Leu His Lys Asp Gln Leu Asp Glu Thr Val

110 105 100 Asn Val Glu Pro Leu Thr Lys Ala Ile Lys Tyr Tyr Gln His Leu Tyr 120 Ser Ile His Leu Ala Glu Gln Pro Glu Asp Cys Thr Met Gln Leu Ala 135 Asp His Ile Lys Phe Thr Gln Ser Ala Leu Asp Cys Met Ser Val Glu Val Arg Arg Leu Arg Ala Phe Leu Gln Gly Gly Gln Glu Ala Thr Asp Ile Ala Leu Leu Arg Asp Leu Glu Thr Ser Cys Ser Asp Ile Arg Gln Phe Cys Lys Lys Ile Arg Arg Met Pro Gly Thr Asp Ala Pro Gly Ile Pro Ala Ala Leu Ala Phe Gly Pro Gln Val Ser Asp Thr Leu Leu Asp Cys Arg Lys His Leu Thr Trp Val Val Ala Val Leu Gln Glu Val Ala Ala Ala Ala Gln Leu Ile Ala Pro Leu Ala Glu Asn Glu 250 Gly Leu Leu Val Ala Ala Leu Glu Glu Leu Ala Phe Lys Ala Ser Glu 260 Gln Ile Tyr Gly Thr Pro Ser Ser Ser Pro Tyr Glu Cys Leu Arg Gln 280 Ser Cys Asn Ile Leu Ile Ser Thr Met Asn Lys Leu Ala Thr Ala Met 290 Gln Glu Gly Glu Tyr Asp Ala Glu Arg Pro Pro Ser Lys Pro Pro 310 Val Glu Leu Arg Ala Ala Ala Leu Arg Ala Glu Ile Thr Asp Ala Glu 330 325 Gly Leu Gly Leu Lys Leu Glu Asp Arg Glu Thr Val Ile Lys Glu Leu 345 Lys Lys Ser Leu Lys Ile Lys Gly Glu Glu Leu Ser Glu Ala Asn Val 360 355 Arg Leu Ser Leu Leu Glu Lys Lys Leu Asp Ser Ala Ala Lys Asp Ala 375 Asp Glu Arg Ile Glu Lys Val Gln Thr Arg Leu Glu Glu Thr Gln Ala 390 Leu Leu Arg Lys Lys Glu Lys Glu Phe Glu Glu Thr Met Asp Ala Leu 410 405 Gln Ala Asp Ile Asp Gln Leu Glu Ala Glu Lys Ala Glu Leu Lys Gln 425 420

Arg Leu Asn Ser Gln Ser Lys Arg Thr Ile Glu Gly Leu Arg Gly Pro
435 440 445

Pro Pro Ser Gly Ile Ala Thr Leu Val Ser Gly Ile Ala Gly Gly Ala 450 455 460

Ile Pro Gly Gln Ala Pro Gly Ser Val Pro Gly Pro Gly Leu Val Lys
465 470 475 480

Asp Ser Pro Leu Leu Gln Gln Ile Ser Ala Met Arg Leu His Ile 485 490 495

Ser Gln Leu Gln His Glu Asn Ser Ile Leu Lys Gly Ala Gln Met Lys 500 505 510

Ala Ser Leu Ala Ser Leu Pro Pro Leu His Val Ala Lys Leu Ser His 515 520 525

Glu Gly Pro Gly Ser Glu Leu Pro Ala Gly Ala Leu Tyr Arg Lys Thr 530 535 540

Ser Gln Leu Leu Glu Thr Leu Asn Gln Leu Ser Thr His Thr His Val 545 550 555 560

Val Asp Ile Thr Arg Thr Ser Pro Ala Ala Lys Ser Pro Ser Ala Gln 565 570 575

Leu Met Glu Gln Val Ala Gln Leu Lys Ser Leu Ser Asp Thr Val Glu 580 585 590

Lys Leu Lys Asp Glu Val Leu Lys Glu Thr Val Ser Gln Arg Pro Gly 595 600 605

Ala Thr Val Pro Thr Asp Phe Ala Thr Phe Pro Ser Ser Ala Phe Leu 610 620

Arg Ala Lys Glu Glu Gln Gln Asp Asp Thr Val Tyr Met Gly Lys Val 625 630 635 640

Thr Phe Ser Cys Ala Ala Gly Phe Gly Gln Arg His Arg Leu Val Leu 645 650 655

Thr Gln Glu Gln Leu His Gln Leu His Ser Arg Leu Ile Ser 660 665 670

<210> 2984

<211> 45

<212> PRT

<213> Homo sapiens

<400> 2984

Met Phe Phe Ser Gln Leu Asn Cys Cys Ile Ser Gln Thr Leu Gly Ser 1 10 15

Met Lys Ala Gly Arg Gly Asn Leu Asn Ile Asn Tyr Glu His Lys Phe 20 25 30

Glu Gly Lys Lys Thr Lys Asn His Tyr Leu Ile Lys Leu

45

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<210> 2985
<211> 27
<212> PRT
<213> Homo sapiens
```

Thr Ala Ala Leu Pro Arg Val Leu Phe Tyr Phe 20 25

```
<210> 2986
<211> 56
<212> PRT
<213> Homo sapiens
```

<400> 2986

Met Gly Pro His Trp Gly Arg Glu Ala Ser Cys Phe Leu Trp Phe Pro 1 5 10 15

Ala Gly Gln Ser Cys Pro Pro Phe Pro Val Leu Pro Thr Leu Gly Asn 20 25 30

Arg Glu Gly Arg Arg Gly Glu Glu Arg Glu Asp Pro Gly Gly Leu Gly 35 40 45

Arg Ser Ser Leu Lys Arg Leu Leu 50 55

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<210> 2987
<211> 60
<212> PRT
<213> Homo sapiens
```

Cys Phe Leu His Leu Cys Gln Pro Val Thr Val Ser Trp Ser Leu Ser 20 25 30

Phe Met Thr Leu Thr Leu Trp Lys Ser Pro Gly Gln Leu Phe Tyr Arg 35 40 45

Ile Phe Pro Ser Phe Ser Leu Phe Asn Val Phe Thr 50 55 60

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<210> 2988
<211> 61
<212> PRT
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<213> Homo sapiens

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<400> 2988
Met Leu Val Val Ser Lys Ala Ser His Phe Thr Leu Phe Leu Asn Cys
Leu Phe Leu Lys Ile Cys Leu Lys Lys Ile Leu Arg Trp Gln His Ile
Gln Val Ala Thr Glu Gly Gly Val Thr Ser Asp Lys Leu Thr Ser Met
                             40
Ser Leu Ala Asn Leu Asp Phe Trp Ser Gln Ala Pro Asp
<210> 2989
<211> 31
<212> PRT
<213> Homo sapiens
<400> 2989
Met Pro Cys Arg Met Asp Arg Met Thr Asp Arg Asp Glu Ala Glu Thr
Ser Thr Asp Pro Ser His Gln Val Glu Pro Phe Phe Leu Phe
<210> 2990
<211> 15
<212> PRT
<213> Homo sapiens
Met Thr Arg Ala Ile Leu Cys Leu Leu Cys Cys Pro Gly His
                 5
<210> 2991
<211> 6
<212> PRT
<213> Homo sapiens
<400> 2991
Met Lys Ile Leu Val Leu
<210> 2992
<211> 149
<212> PRT
<213> Homo sapiens
<400> 2992
Met Ala Tyr Thr Leu Leu Gly Leu Leu Trp Leu His Arg Gly Gly Ala
                  5
                                      10
```

Val Gly Leu Gly Pro Arg Tyr Leu Lys Asp Val Phe Ala Ala Met Ala 20 25 30

Leu Leu Tyr Gly Pro Val Gln Trp Leu Arg Leu Trp Thr Gln Trp Arg 35 40 45

Arg Ala Ala Val Leu Asp Gln Trp Leu Thr Leu Pro Ile Phe Ala Trp 50 55 60

Pro Val Ala Trp Cys Leu Tyr Leu Asn Arg Gly Trp Arg Pro Trp Leu 65 70 75 80

Phe Leu Ser Leu Glu Cys Val Ser Leu Ala Ser Tyr Gly Leu Ser Leu 85 90 95

Cys Ile Pro Arg Gly Phe Glu Val Ala Leu Gly Ala His Met Trp Pro 100 105 110

Leu Trp Gly Arg Arg Cys Ala Pro Asn Arg His Tyr Gly Asn Thr Thr 115 120 125

Ser Ala Thr Tyr Ser Pro Leu Gly Val Pro Leu Leu Pro Gly Leu Cys 130 135 140

Gly Pro Gln Ala Val 145

<210> 2993

<211> 23

<212> PRT

<213> Homo sapiens

<400> 2993

Met Lys Leu Asn Asn Lys Gln Cys His Leu Tyr Met Gly Thr Met Pro 1 5 10 15

Ser Ser Ser Cys Cys Val Phe

<210> 2994

<211> 58

<212> PRT

<213> Homo sapiens

<400> 2994

Leu Gln Leu Gly Leu Cys Cys Leu Pro Val Leu Phe Val Ala Leu Gly
1 5 10 15

Met Ala Ser Asp Pro Ile Phe Thr Leu Ala Pro Pro Leu His Cys His 20 25 30

Tyr Gly Ala Phe Pro Pro Asn Ala Ser Gly Trp Glu Gln Pro Pro Asn 35 40 45

Ala Ser Gly Val Thr Ser Pro Ala Leu Pro 50 55 <210> 2995 <211> 60 <212> PRT <213> Homo sapiens

<400> 2995

Met Ala Val Thr Ala Leu Ala Ala Arg Thr Trp Leu Gly Val Trp Gly
1 5 10 15

Val Arg Thr Met Gln Ala Arg Gly Phe Gly Ser Asp Gln Ser Glu Asn 20 25 30

Val Asp Arg Gly Ala Gly Ser Ile Arg Glu Ala Gly Gly Ala Phe Gly
35 40 45

Lys Arg Glu Gln Ala Glu Glu Glu Arg Tyr Phe Arg 50 55 60

<210> 2996 <211> 53 <212> PRT <213> Homo sapiens

<400> 2996

Val Leu Ser Cys Ile Leu Ala Leu Leu Val Lys His Ser Lys Ala Ser 1 5 10 15

Thr His Pro Pro Phe Ser Pro Leu Gly Lys Ala Val Asp Cys Asn Ile 20 25 30

His Thr Ala Pro Trp Ala Met Val Lys Ser Leu Ala Glu Gly Leu Gly 35 40 45

Glu Ala Leu Cys Val 50

<210> 2997 <211> 35 <212> PRT <213> Homo sapiens

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<400> 2997

Met Cys Pro Leu Thr Thr Ala Ser Glu Ala Leu Ser Ala Ile Lys Met
1 5 10 15

Gln Ile Leu Gly Leu Ile Leu Leu Leu Leu Asn Pro Gly Ile Ser Gly 20 25 30

Gly Asn Ser 35

<210> 2998

```
<211> 38
<212> PRT
<213> Homo sapiens
<400> 2998
Met Arg Ser Glu Gly Gly Arg Leu Ile Lys Thr Thr Lys Asn Ile Ile
Val Val Thr Leu Leu Phe Phe Phe Cys Gly Gly Asp Ser Thr
Ile Ile Lys Ile Gln Thr
         35
<210> 2999
<211> 38
<212> PRT
<213> Homo sapiens
<400> 2999
Met Arg Ser Glu Gly Gly Arg Leu Ile Lys Thr Thr Lys Asn Ile Ile
Val Val Thr Leu Leu Phe Phe Phe Cys Gly Gly Asp Ser Thr
             20
Ile Ile Lys Ile Gln Thr
         35
<210> 3000
<211> 27
<212> PRT
<213> Homo sapiens
<400> 3000
Met Tyr Leu Asp Gln Ser Ser Leu Val Phe Leu Thr Leu Ala Met Ser
                 5
His Cys His Leu Met Gly Pro Ile Trp Val Leu
             20
```

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<210> 3002
<211> 59
<212> PRT
<213> Homo sapiens
<400> 3002
Met Leu Val Thr Met Ala Pro Ile Val Leu Ile Leu Leu Gly Leu Leu
Leu Phe Lys Met Tyr Pro Ile Asp Glu Glu Arg Arg Gln Asn Lys
Lys Ala Leu Gln Ala Leu Arg Asp Glu Ala Ser Ser Gly Cys Ser
Glu Thr Asp Ser Thr Glu Leu Ala Ser Ile Leu
<210> 3003
<211> 40
<212> PRT
<213> Homo sapiens
<400> 3003
Met Val Leu Leu Arg Val Leu Ala Ser His Leu His His Phe Tyr Phe
Ser Phe Thr Ile Cys Ile Phe Gln Ser Ala Tyr Ile Leu Thr Leu Leu
Leu Val Val Leu Met Thr Ser Asp
         35
<210> 3004
<211> 2
<212> PRT
<213> Homo sapiens
<400> 3004
 Trp Asn
  1
 <210> 3005
 <211> 28
 <212> PRT
 <213> Homo sapiens
 <400> 3005
 Met Thr Leu Ala Phe Val Thr Leu Val Arg Val Ile Ser Thr Ile Ile
                                      10
 Gly Gly Met Ala Asp Gln Gly Glu Val Lys Ser Gln
```

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<210> 3006
<211> 8
<212> PRT
<213> Homo sapiens
<400> 3006
Met Cys Arg Trp Phe Val Ser Glu
<210> 3007
<211> 20
<212> PRT
<213> Homo sapiens
<400> 3007
Met Phe Ser Gln Leu Leu Leu Tyr Cys Val Tyr Leu Tyr Cys Cys Arg
                                      10
Gly Gly Cys Phe
<210> 3008
<211> 40
<212> PRT
<213> Homo sapiens
<400> 3008
Met Glu Leu Lys Lys Asn Val Phe Ser Val Ser Ser Leu Cys Thr Pro
Ser His Tyr Ser Ser His Thr Leu His Phe Phe Phe Phe Lys Ala
Ala Leu Ile Gly Cys Tyr Ile Leu
         35
 <210> 3009
 <211> 4
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <400> 3009
 Met Xaa Ser Tyr
```

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<210> 3010
<211> 38
<212> PRT
<213> Homo sapiens
<400> 3010
Met Val Ala Arg Cys Phe Leu Thr Phe Leu Arg Val Asn Ser Leu Ser
                                      10
Gln Gly Thr Val Glu Met Gly Val Trp Ser Gly Phe Pro Pro Gln Ser
                                  25
Leu Leu Ile Thr Ala Gln
         35
<210> 3011
<211> 1
<212> PRT
<213> Homo sapiens
<400> 3011
Ile
 1
<210> 3012
<211> 65
<212> PRT
<213> Homo sapiens
<400> 3012
Met Arg Phe Phe Leu Phe Pro Tyr Tyr Cys Phe Ile Leu Ser Cys His
Ser Lys Leu Thr Phe Phe Gly Met Phe Phe Leu Tyr Leu Cys Pro Phe
Arg Ser Ala Leu Asp Ser Leu Gly Gly Leu Leu Gln Trp Val Cys Leu
         35
Asn Ile Val Ile Pro His Val Ala Asp Trp Glu Thr Leu Leu Phe Asn
                          55
 Trp
 65
 <210> 3013
 <211> 40
 <212> PRT
 <213> Homo sapiens
 <400> 3013
 Met Leu Ser Leu Ser Ser Leu Ser Arg Cys Lys Leu Tyr Val Tyr Trp
                                       10
                   5
```

Leu Cys Ser Leu Ile Leu Phe His Gly Lys Tyr Lys Gln Phe Ser Ala 20 25 30

Tyr Lys Tyr Trp Lys Lys Leu Ser 35 40

<210> 3014

<211> 15

<212> PRT

<213> Homo sapiens

<400> 3014

Met Phe Val Asp Val Ser Trp Phe Leu Val Phe Thr Leu Leu Pro 1 5 10 15

<210> 3015

<211> 39

<212> PRT

<213> Homo sapiens

<400> 3015

Met Ser His Phe Ser Cys Val Ile Leu Ile Leu Thr Gly Ile Arg Trp
1 5 10 15

His Gly Leu Val Phe Ser Gln Phe Gln Asn Ile Phe Leu His Cys Phe 20 25 30

Asn Val Lys Lys Met Lys Ile 35

<210> 3016

<211> 3

<212> PRT

<213> Homo sapiens

<400> 3016

Leu Leu Gly

<210> 3017

<211> 36

<212> PRT

<213> Homo sapiens

<400> 3017

Met Lys Leu Phe Leu Pro Arg Pro Leu Ser Ala Ala Arg Val Arg Gly
1 5 10 15

Leu Leu Phe Cys Ile Phe Ile Ala Leu Arg His Leu Val Leu Cys Asp

Tyr His Thr Tyr

<210> 3018 <211> 295 <212> PRT

<213> Homo sapiens

Gly Met Ile Leu Thr Ala Leu Leu Gln Gly Leu Ala Gly Arg Thr Trp 20 25 30

Ala Gly Lys Glu Glu Leu Leu Lys Ala Ile Ala Cys Val Val Thr Ala 35 40 45

Cys Ser Ala Glu Leu Glu Lys Ser Val Pro Asn Gln Pro Ser Thr Asn 50 55 60

Glu Ile Leu Gln Ala Val Leu Lys Glu Cys Ser Lys Glu Asn Val Lys
65 70 75 80

Tyr Lys Ile Val Ala Ile Ser Cys Ala Ala Asp Ile Leu Lys Ala Thr 85 90 95

Lys Glu Asp Arg Phe Gln Glu Phe Ser Asn Ile Val Ile Pro Leu Ile 100 105 110

Lys Lys Asn Ser Leu Glu Ser Ser Gly Val Arg Thr Thr Lys Asn Glu 115 120 125

Glu Glu Asn Glu Lys Glu Lys Glu Leu Gln Leu Glu Tyr Leu Leu Gly 130 135 140

Ala Phe Glu Ser Leu Gly Lys Ala Trp Pro Arg Asn Ala Glu Thr Gln 145 150 155 160

Arg Cys Tyr Arg Gln Glu Leu Cys Lys Leu Met Cys Glu Arg Leu Lys 165 170 175

Leu Ser Thr Trp Lys Val Gln Leu Gly Val Leu Gln Ser Met Asn Ala 180 185 190

Phe Phe Gln Gly Leu Met Leu Leu Glu Glu Glu His Ala Asp Pro Glu
195 200 205

Ala Leu Ala Glu Ile Leu Leu Glu Thr Cys Lys Ser Ile Thr Tyr Ser 210 215 220

Leu Glu Asn Lys Thr Tyr Ser Ser Val Arg Thr Glu Ala Leu Ser Val 225 230 235 240

Ile Glu Leu Leu Leu Lys Lys Leu Glu Glu Ser Lys Gln Trp Glu Cys 245 250 255

Leu Thr Ser Glu Cys Arg Val Leu Leu Ile Glu Ser Leu Ala Thr Met 260 265 270

Glu Pro Asp Ser Arg Pro Glu Leu Gln Glu Lys Ala Ala Leu Leu Lys

275 280 285

Lys Thr Leu Glu Asn Leu Glu 290 295

<210> 3019

<211> 36

<212> PRT

<213> Homo sapiens

<400> 3019

Met Gln Pro Pro Ile Ser Ser Tyr Ser Phe Leu Val Phe Trp Leu Thr
1 5 10 15

Val Gln Pro Cys Gly Phe Cys Ala Ala Ser Ser Ala Arg Lys Ile Lys 20 25 30

Pro Ser Phe Ser 35

<210> 3020

<211> 37

<212> PRT

<213> Homo sapiens

<400> 3020

Met Leu Leu Ser Thr Leu Tyr Leu Pro Ser Ala Leu Ser Arg Lys
1 5 10 15

Thr Phe Val Leu Leu Lys Thr Lys Asp Val Phe Ile Leu Asp Pro Glu 20 25 30

Glu Arg Ser Leu Leu 35

<210> 3021

<211> 34

<212> PRT

<213> Homo sapiens

<400> 3021

Met Gly Gln Gly Ser His Leu Met Leu Val Phe Leu Ile Leu Tyr Tyr 1 5 10 15

Ile Val Leu Phe Met Ile Gln Leu Ile Leu Thr Lys Phe Val Ala Val

Glu Pro

<210> 3022

<211> 34

<212> PRT

<213> Homo sapiens

```
<400> 3022
Met Val Phe Thr Cys Pro His Gln Lys Pro Ala Leu Ser Arg Leu Leu
Arg Leu Leu Leu Asn Arg Ser Ala Ile Cys Ile Pro Gly Ala Pro
Gln Gly
<210> 3023
<211> 6
<212> PRT
<213> Homo sapiens
<400> 3023
Ser Trp Leu Pro Pro Ile
<210> 3024
<211> 16
<212> PRT
<213> Homo sapiens
<400> 3024
Val Ile Ile Ser Ser Val Phe Ser Phe Val Leu Leu Ser Cys Ile His
                  5
<210> 3025
 <211> 319
 <212> PRT
 <213> Homo sapiens
 <400> 3025
Met Gln Thr Cys Pro Leu Ala Phe Pro Gly His Val Ser Gln Ala Leu
                                      10
 Gly Thr Leu Leu Phe Leu Ala Ala Ser Leu Ser Ala Gln Asn Glu Gly
                                  25
 Trp Asp Ser Pro Ile Cys Thr Glu Gly Val Val Ser Val Ser Trp Gly
```

40

Glu Asn Thr Val Met Ser Cys Asn Ile Ser Asn Ala Phe Ser His Val

Asn Ile Lys Leu Arg Ala His Gly Gln Glu Ser Ala Ile Phe Asn Glu

Val Ala Pro Gly Ser Gly Arg Arg Gly Thr Ala Gly Asp Gln Arg Arg

35

85 90 95

Pro Gly Leu Arg Ala Gly Ala Gln Gln Gly Leu Ser Arg Ala Ser Ala 100 105 110

Glu Leu Trp Thr Pro Asp Ser Glu Pro Thr Pro Arg Pro Leu Ala Leu 115 120 125

Val Phe Lys Pro Ser Pro Leu Gly Ala Leu Glu Leu Leu Ser Pro Gln 130 135 140

Pro Leu Phe His Met Pro Gln Thr His Ser Arg Leu Gln Gly Arg Glu 145 150 155 160

Asp Thr Gly Glu Pro Ala Leu Ser Ala Asp Leu Gly Trp Arg Gly Leu 165 170 175

Gly Leu Ser Ser His Pro Glu Gly Thr Asp Thr Gly Leu Leu Gly Arg 180 185 190

Leu Gly Leu Cys Val Thr His Ser Trp Val Arg Ala Asp Pro Ser Pro 195 200 205

Pro Pro Pro Arg Ser Ser Lys Leu Cys Phe Leu Ser Phe Gln Asn Gly 210 215 220

Thr Thr Ser Pro Pro Gln His Pro Thr Tyr Gln Asp Ala Cys Pro Ser 225 230 235 240

Leu Cys Pro His Gln Thr His Arg Pro Gly Leu Pro Phe Cys His Pro 245 250 255

Arg Leu Val Arg Pro Gln Val Trp Gly Pro Leu Ser Pro Leu Pro Gly 260 265 270

Leu Arg Ala Gln Val Arg Gly Pro Leu Pro Glu Pro Gln Thr His Ser

Ser Ser Gly Leu Trp Gly Ala Leu Ala Thr Tyr Leu Ser Leu Gly Tyr 290 295 300

Glu Gln Ala Leu Gly Ala Leu Pro Arg Gln Pro Arg Gly Pro Arg 305 315

<210> 3026

<211> 30

<212> PRT

<213> Homo sapiens

<400> 3026

Met Ser Ile Ser Val Phe Ser Leu Leu Ser Phe Leu Ile Asp Gly
1 5 10 15

Ser Phe Ser Leu Leu Pro Arg Gly Cys Gln Asn Phe Ala Ser 20 25 30

<210> 3027

Glu Ile Leu Pro Gin Leu Ile Asp Lys Ile Leu Ile Pro Aig Sei 35 40 45

Glu Phe Arg Asn Ile Leu Ile Asn Glu Ser Ser Cys
50 55 60

<210> 3028 <211> 49 <212> PRT <213> Homo sapiens

Ile Asn Leu His Leu Phe Leu Phe Leu Phe Phe Phe Phe Ser Ser 20 25 30

Val Val Thr Ser Phe Pro Leu Ser Phe Phe Ile Leu Pro Gly Pro Leu 35 40 45

Pro

<210> 3029 <211> 8 <212> PRT <213> Homo sapiens <400> 3029 Met Thr Thr Trp Pro Thr Cys Ser 1

<210> 3030 <211> 158 <212> PRT <213> Homo sapiens

Phe Asp Met Glu Ala Thr Gly Leu Pro Phe Ser Gln Pro Lys Val Thr 20 25 30

Glu Leu Cys Leu Leu Ala Val His Arg Cys Ala Leu Glu Ser Pro Pro 35 40 45

Thr Ser Gln Gly Pro Pro Pro Thr Val Pro Pro Pro Pro Arg Val Val 50 55 60

Asp Lys Leu Ser Leu Cys Val Ala Pro Gly Lys Ala Cys Ser Pro Ala 65 70 75 80

Ala Ser Glu Ile Thr Gly Leu Ser Thr Ala Val Leu Ala Ala His Gly 85 90 95

Arg Gln Cys Phe Asp Asp Asn Leu Ala Asn Leu Leu Leu Ala Phe Leu 100 105 110

Arg Arg Gln His Ser Pro Gly Ala Trp Trp His Thr Met Val Thr Ala 115 120 125

Thr Thr Ser Pro Cys Ser Lys Gln Ser Trp Leu Cys Trp Ala Ser Pro 130 135 140

Val Leu Trp Met Val Pro Ser Val Trp Ile Ala Ser Leu Arg 145 150 155

<210> 3031

<211> 42

<212> PRT

<213> Homo sapiens

<400> 3031

Met Ala Val Ala Ala Trp Val Met Ser Val Ser Leu His Leu Gly Phe 1 5 10 15

Pro Trp Ala Leu Ser Arg Gln Arg His Pro Gln Ser His His Cys 20 25 30

Glu Ser Phe Gly Ser Phe Ser Ile Trp Ala 35 40

<210> 3032

<211> 22

<212> PRT

<213> Homo sapiens

<400> 3032

Leu Ala Val Leu Leu Pro Gln Arg Val Leu Leu Ser Val Phe Leu Cys
1 5 10 15

Leu Leu Pro Leu Gln Arg 20

<210> 3033

<211> 94

<212> PRT

<213> Homo sapiens

<400> 3033

Met Arg Gln Glu Asp Leu Thr Gly Leu Cys Lys Leu Val Asn Ile Leu
1 5 10 15

Phe Phe Leu Gln Phe Tyr Thr Leu Leu Ser Phe Phe Leu Leu 20 25 30

Lys Asn Val His Lys Leu Phe Val Ala Ala Val Ile Ile Phe Val Val 35 40 45

Lys Ser Gln Arg Cys Cys Val Ala Gly Ser Ala Ser Gly Leu Gly Leu 50 55 60

Arg Leu His Gly Ser Asn Tyr Thr Val Val Tyr Gly Asp Gln Ser Arg
65 70 75 80

Pro Pro Leu Leu Arg Val Lys Thr Gly Val Lys Gly Lys Ala 85 90

<210> 3034

<211> 32

<212> PRT

<213> Homo sapiens

<400> 3034

Met Pro Ile Lys Ile Tyr Phe Leu Leu Val Ile Ser Thr Leu Phe Leu

1 5 10 15

Ile Leu Thr Phe Ile Thr Gly Asn Val Pro Val His Val Gly Ser Arg 20 25 30

<210> 3035

<211> 28

<212> PRT

<213> Homo sapiens

<400> 3035

Met Asp Phe Leu Leu Phe Leu Ser Gly Ser Ser Ser Phe Leu Ser Leu 1 5 10 15

Phe Leu Phe Ile Tyr Leu Phe Ile Tyr Phe Ala Val 20 25

<210> 3036

<211> 49

<212> PRT

<213> Homo sapiens

<400> 3036

Met Gly Ala Leu Cys Val His Cys Cys Ile Leu Ala Phe Cys Thr Tyr

10 15 5 Gly Ser Gly Ile Ser Leu Phe Pro Tyr Leu Leu Ile Cys Leu Arg Gly 25 Arg Asn Ile His Tyr Ala Met Thr Ile Pro Val Leu Val Asn Val Pro 40 Val <210> 3037 <211> 31 <212> PRT <213> Homo sapiens <400> 3037 Met Tyr Lys Glu Ile Pro Val Lys Leu Phe Cys Leu Met Phe Tyr Trp 10 Thr Lys Val Val Val Cys Met Glu Cys Ser Ser Ser Val Tyr Arg 25 <210> 3038 <211> 25 <212> PRT <213> Homo sapiens <400> 3038 Arg Lys Trp Trp Pro Gln Asp Ile His Leu Thr Val Ala Val Ala Thr Leu Trp Ser Ser Ser Gly His Gln Trp 20 <210> 3039 <211> 46 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (36) <223> Xaa equals any of the naturally occurring L-amino acids <400> 3039 Met Asn Val Thr Val Thr Leu Pro Lys Tyr His Leu Ala Leu Ile Trp Leu Leu Phe His Phe Gly Trp Ala Leu Leu Ser Val Cys Ser Lys Thr 20 Val Leu Met Xaa Leu Ser Asn Val His Asn Ala Val Ile Gly

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<210> 3040
<211> 49
<212> PRT
<213> Homo sapiens
<400> 3040
Met Val Leu Val Thr Trp Pro Leu Phe Thr Ala Pro Phe Ala Ser Thr
Ser Cys Cys Ala Gly Leu Glu Val Ala Thr Met Ala Cys Phe Lys Glu
Gly Asn Ser Gly Thr Val Ala Pro Ser Gly Val Glu Asp Ser Glu Leu
Pro
<210> 3041
<211> 34
<212> PRT
<213> Homo sapiens
<400> 3041
Met Cys Val Thr Phe Leu Ser Ala Cys Cys Ile Tyr Ala Phe Tyr Leu
Leu Leu Phe Ser Leu Phe Ile Gln Val Thr Lys Arg Met Leu Glu Gln
Ala Trp
<210> 3042
<211> 31
<212> PRT
<213> Homo sapiens
<400> 3042
Met Lys Pro His Leu His Leu Pro Leu Leu Phe Leu Pro Thr Leu Ser
Asn Ile Thr Phe Thr Leu Asn Phe Ser Val Tyr Arg Lys Glu Asn
<210> 3043
<211> 32
<212> PRT
<213> Homo sapiens
<400> 3043
Met Ile Gln His Val Val Phe Cys Val Trp Leu Leu Ser Phe Ser Ile
```

5

Phe Lys Leu His Leu Ser Ser Ser Leu Cys Arg Tyr Cys Ile Ala Gly
20 25 30

<210> 3044 <211> 216 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (101) <223> Xaa equals any of the naturally occurring L-amino acids <400> 3044 Met Glu Met Arg Ser Val Leu Arg Lys Ala Gly Ser Pro Arg Lys Ala Arg Arg Ala Arg Leu Asn Pro Leu Val Leu Leu Asp Ala Ala Leu Thr Gly Glu Leu Glu Val Val Gln Gln Ala Val Lys Glu Met Asn Asp Pro Ser Gln Pro Asn Glu Glu Gly Ile Thr Ala Leu His Asn Ala Ile Cys Gly Ala Asn Tyr Ser Ile Val Asp Phe Leu Ile Thr Ala Gly Ala Asn Val Asn Ser Pro Asp Ser His Gly Trp Thr Pro Leu His Cys Ala Ala Ser Cys Asn Xaa Thr Val Ile Cys Met Ala Leu Val Gln His Gly 105 Ala Ala Ile Phe Ala Thr Thr Leu Ser Asp Gly Ala Thr Ala Phe Glu 120 115 Lys Cys Asp Pro Tyr Arg Glu Gly Tyr Ala Asp Cys Ala Thr Tyr Leu 135 Ala Asp Val Glu Gln Ser Met Gly Leu Met Asn Ser Gly Ala Val Tyr 150 145 Ala Leu Trp Asp Tyr Ser Ala Glu Phe Gly Asp Glu Leu Ser Phe Arg 170 165 Glu Gly Glu Ser Val Thr Val Leu Arg Arg Asp Gly Pro Glu Arg Pro 180 Thr Gly Gly Pro Arg Cys Thr Ala Arg Arg Ala Thr Cys Arg Gly

200

215

Thr Thr Ser Gly Cys Ser Pro Gly

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<210> 3045
<211> 36
<212> PRT
<213> Homo sapiens
<400> 3045
Met Leu Leu Trp Leu Trp Ser Gly Pro Gly Met Ala Val Gly Pro Cys
Arg Gly Val Ala Leu Leu Ala Arg Ser Gly Met Cys Ser Ala Glu Ala
Val Asn Ser Trp
         35
<210> 3046
<211> 59
<212> PRT
<213> Homo sapiens
<400> 3046
Met Cys Val Cys Val Tyr Val Cys Ala Cys Leu Cys Pro Arg Pro Cys
Val Pro His Thr Ala Pro Leu Ser Ser Val Leu Pro Arg Asp Pro Ser
             20
Glu Leu Ala Cys Gly Ala Arg Glu Ala Pro Trp Met Gly Gly Ala
Thr Gly Arg Leu Glu Gly Leu His Gln Ala His
     50
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<210> 3047 <211> 55 <212> PRT <213> Homo sapiens

<400> 3047
Met Glu Phe Phe Pro Arg Gly Gln Leu Leu Leu Ser Phe Ile Met
1 5 10 15

Ile Leu Thr Phe Trp Val Lys Gln Gly Gly Trp Glu Arg Trp Ser Asp 20 25 30

Val Lys Tyr Asn Leu Leu Gly Gly Thr Val Asn Cys Glu Val Val Arg 35 40 45

Lys Lys Ile Lys Thr Ser Tyr
50 55

<210> 3048

<211> 347 <212> PRT

<213> Homo sapiens

<400> 3048

Met Phe Tyr Cys Thr Arg Thr Leu Pro Asn Val Leu Ala Leu Pro Val
1 5 10 15

Val Leu Leu Ala Leu Ala Ala Trp Leu Arg His Glu Trp Ala Arg Phe
20 25 30

Ile Trp Leu Ser Ala Phe Ala Ile Ile Val Phe Arg Val Glu Leu Cys 35 40 45

Leu Phe Leu Gly Leu Leu Leu Leu Leu Ala Leu Gly Asn Arg Lys Val 50 55 60

Ser Val Val Arg Ala Leu Arg His Ala Val Pro Ala Gly Ile Leu Cys 65 70 75 80

Leu Gly Leu Thr Val Ala Val Asp Ser Tyr Phe Trp Arg Gln Leu Thr
85 90 95

Trp Pro Glu Gly Lys Val Leu Trp Tyr Asn Thr Val Leu Asn Lys Ser 100 105 110

Ser Asn Trp Gly Thr Ser Pro Leu Leu Trp Tyr Phe Tyr Ser Ala Leu 115 120 125

Pro Arg Gly Leu Gly Cys Ser Leu Leu Phe Ile Pro Leu Gly Leu Val 130 135 140

Asp Arg Arg Thr His Ala Pro Thr Val Leu Ala Leu Gly Phe Met Ala 145 150 155 160

Leu Tyr Ser Leu Leu Pro His Lys Glu Leu Arg Phe Ile Ile Tyr Ala 165 170 175

Phe Pro Met Leu Asn Ile Thr Ala Ala Arg Gly Cys Ser Tyr Leu Leu 180 185 190

Asn Asn Tyr Lys Lys Ser Trp Leu Tyr Lys Ala Gly Ser Leu Leu Val 195 200 205

Ile Gly His Leu Val Val Asn Ala Ala Tyr Ser Ala Thr Ala Leu Tyr 210 215 220

Val Ser His Phe Asn Tyr Pro Gly Gly Val Ala Met Gln Arg Leu His 225 230 235 240

Gln Leu Val Pro Pro Gln Thr Asp Val Leu Leu His Ile Asp Val Ala 245 250 255

Ala Ala Gln Thr Gly Val Ser Arg Phe Leu Gln Val Asn Ser Ala Trp 260 265 270

Arg Tyr Asp Lys Arg Glu Asp Val Gln Pro Gly Thr Gly Met Leu Ala 275 280 285

Tyr Thr His Ile Ser Trp Arg Arg Pro Trp Ala Pro Gly Pro Leu Gln 290 295 300 Gly His Thr Pro Gly Pro Gly Gln Arg Arg Gly Asp His Arg Cys Glu 305 310 315 320

Ser Glu Pro Asp Pro Thr Ala Pro Phe Asn Val His Leu Gln Thr Lys 325 330 335

Leu Val Leu Leu Glu Arg Leu Pro Arg Pro Ser 340 345

<210> 3049

<211> 28

<212> PRT

<213> Homo sapiens

<400> 3049

Pro Phe Ala Leu Ser Leu Gln Arg Val Pro Phe Val Leu Pro Ser Pro 1 5 10 15

Gln Val Ala Ser Leu Pro Leu Gly His Ser Arg Gly
20 25

<210> 3050

<211> 410

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3050

Met Ala Asp Ser Ser Gly Arg Gly Ala Gly Lys Pro Ala Thr Gly Pro 1 5 10 15

Thr Asn Ser Ser Ser Ala Lys Lys Lys Asp Lys Arg Val Gln Gly Gly 20 25 30

Arg Val Ile Glu Ser Arg Tyr Leu Gln Tyr Glu Lys Lys Thr Thr Gln 35 40 45

Lys Ala Pro Ala Gly Asp Gly Ser Gln Thr Arg Gly Lys Met Ser Glu 50 55 60

Gly Gly Arg Lys Ser Ser Leu Leu Gln Lys Ser Lys Ala Asp Ser Ser 65 70 75 80

Gly Val Xaa Lys Gly Asp Leu Gln Ser Thr Leu Leu Glu Gly His Gly 85 90 95

Thr Ala Pro Pro Asp Leu Asp Leu Ser Ala Ile Asn Asp Lys Ser Ile 100 105 110

Val Lys Lys Thr Pro Gln Leu Ala Lys Thr Ile Ser Lys Lys Pro Glu 115 120 125 Ser Thr Ser Phe Ser Ala Pro Arg Lys Lys Ser Pro Asp Leu Ser Glu 135 Ala Met Glu Met Met Glu Ser Gln Thr Leu Leu Leu Thr Leu Leu Ser 155 Val Lys Met Glu Asn Asn Leu Ala Glu Phe Glu Arg Arg Ala Glu Lys Asn Leu Leu Ile Met Cys Lys Glu Lys Glu Lys Leu Gln Lys Lys Ala 185 His Glu Leu Lys Arg Arg Leu Leu Leu Ser Gln Arg Lys Arg Glu Leu Ala Asp Val Leu Asp Ala Gln Ile Glu Met Leu Ser Pro Phe Glu Ala 210 Val Ala Thr Arg Phe Lys Glu Gln Tyr Arg Thr Phe Ala Thr Ala Leu 230 Asp Thr Thr Arg His Glu Leu Pro Val Arg Ser Ile His Leu Glu Gly 245 Asp Gly Gln Gln Leu Leu Asp Ala Leu Gln His Glu Leu Val Thr Thr Gln Arg Leu Leu Gly Glu Leu Asp Val Gly Asp Ser Glu Glu Asn Val 275 Gln Val Leu Asp Leu Leu Ser Glu Leu Lys Asp Val Thr Ala Lys Lys 295 Asp Leu Glu Leu Arg Arg Ser Phe Ala Gln Val Leu Glu Leu Ser Ala 310 Glu Ala Ser Lys Glu Ala Ala Leu Ala Asn Gln Glu Val Trp Glu Glu 330 325 Thr Gln Gly Met Ala Pro Pro Ser Arg Trp Tyr Phe Asn Gln Asp Ser 345 340 Ala Cys Arg Glu Ser Gly Gly Ala Pro Lys Asn Thr Pro Leu Ser Glu 360 Asp Asp Asn Pro Gly Ala Ser Ser Ala Pro Ala Gln Ala Thr Phe Ile Ser Pro Ser Glu Asp Phe Ser Ser Ser Gln Ala Glu Val Pro Pro 395 390

Ser Leu Ser Arg Ser Gly Arg Asp Leu Ser

405

<210> 3051

<211> 66

<212> PRT

<213> Homo sapiens

<400> 3051 Met Phe Cys Trp Cys Gly Leu Cys Thr Ser Gly Met Val Thr Thr Gly 10 Gly Ser Pro Gln Lys His Ser Phe Phe Tyr Thr Ser Ser Gln Gly His Val Ser Cys Pro Ser Leu Pro Gly Cys Gly Gln Lys Val Ile Cys Ser Trp Pro Ser Gly Gly Gly Gly Pro Glu Ser Glu Glu Met Ala Gln Gly Gln 65 <210> 3052 <211> 66

<212> PRT <213> Homo sapiens

<400> 3052

Met Phe Cys Trp Cys Gly Leu Cys Thr Ser Gly Met Val Thr Thr Gly

Gly Ser Pro Gln Lys His Ser Phe Phe Tyr Thr Ser Ser Gln Gly His

Val Ser Cys Pro Ser Leu Pro Gly Cys Gly Gln Lys Val Ile Cys Ser

Trp Pro Ser Gly Gly Gly Gly Pro Glu Ser Glu Glu Met Ala Gln

Gly Gln 65

<210> 3053 <211> 29 <212> PRT <213> Homo sapiens

<400> 3053 Gly Phe Leu Gly Ile Leu Tyr Leu Thr Ile Phe Ile Leu Tyr Gln Thr 5

His Leu Gln Phe Leu Gly Leu Leu Val Lys Thr Phe Phe 25 20

<210> 3054 <211> 83 <212> PRT <213> Homo sapiens <400> 3054

Pro Pro Asp Ser Arg Lys Val Leu Arg Leu Asn Gly Val Ser Ser Val 1 5 10 15

Tyr Ala Ala Leu Ala Leu His Leu Arg Val Pro Gly Arg His Leu Ser 20 25 30

Leu Gly Phe Ile Phe His Gly Asp Met Thr Cys Trp Leu Lys His Tyr 35 40 45

Ser Val Leu Phe Leu Val Gly Thr Gly Thr Glu Leu Glu Leu Phe Trp 50 55 60

Ser Val Pro Ser Tyr Leu Lys Met Leu Cys Cys Thr Ile Ile Leu Lys 65 70 75 80

Asn Tyr Lys

<210> 3055

<211> 61

<212> PRT

<213> Homo sapiens

<400> 3055

Met Pro Pro Asn Ala Leu Leu Leu Ser Ser Val Leu Asn Phe Phe Leu 1 5 10 15

Leu Thr Ser Phe Val Cys Asn Val Lys Arg Val Glu Lys His His Ser 20 25 30

Ser Gln Met Tyr Ser Phe Cys Met Lys Lys Thr Glu Ile Tyr Ile Ala 35 40 45

Gly Ser Gly Ile Cys Pro Val Ser Tyr Ser Trp Leu Val 50 55 60

<210> 3056

<211> 36

<212> PRT

<213> Homo sapiens

<400> 3056

Cys Val Cys Val Phe Ile Cys Phe Leu Pro Ser Gln Phe Phe Ser Pro 1 5 10 15

Leu Pro Thr Thr Thr Met Thr Pro Ser Arg Glu Thr Ile Asn Val Pro 20 25 30

Ile Met Phe Val

<210> 3057

<211> 61

<212> PRT

<213> Homo sapiens

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<400> 3057
Met Thr Ile Met Phe Pro Gln Leu Phe Tyr Phe Pro Thr Ser Phe Ala
Val Leu Ser Val Ala Gly Arg Arg Lys Cys Cys Trp Leu Ala Gln Lys
Lys Leu Leu Leu Leu Leu Leu Leu Leu Ser Ala Ile Ser Val Thr
Ile Glu Thr Gly Ala Val Tyr Ala Arg Gly Ala Gly Ser
                        55
<210> 3058
<211> 7
<212> PRT
<213> Homo sapiens
<400> 3058
Met Gly Cys Ile Ile Ala Thr
<210> 3059
<211> 11
<212> PRT
<213> Homo sapiens
<400> 3059
Met Phe Ser Pro His Met Tyr Ile Cys His Met
 1
<210> 3060
<211> 16
<212> PRT
<213> Homo sapiens
<400> 3060
Met Arg Met Cys Val Cys Thr Ser Leu Ser Leu Cys Gly Met Cys Val
        5
<210> 3061
<211> 47
<212> PRT
<213> Homo sapiens
 <400> 3061
Met Ser Ser Arg Pro Val Leu Trp Leu Met Leu Leu Val Gly Trp Met
```

Trp Ile Lys Lys Leu Cys Asn Thr Gly Gly Thr Gln Met Cys Leu Gly 20 25 30

Leu Gly Thr Ala Pro Thr Phe Leu Arg Gln Arg Pro Leu Leu Gln 35 40 45

<210> 3062

<211> 31

<212> PRT

<213> Homo sapiens

<400> 3062

Met Thr Ser Ala Phe Leu Ile His Leu Thr Leu Val Leu Val Pro Thr 1 5 10 15

Val Asn Lys Thr Gln Thr Leu Gly Ser Lys Ile Ser Cys Ser Arg
20 25 30

<210> 3063

<211> 8

<212> PRT

<213> Homo sapiens

<400> 3063

Ser Trp Leu Lys Lys Leu Tyr Phe

<210> 3064

<211> 42

<212> PRT

<213> Homo sapiens

<400> 3064

Met Glu Val Leu Gln Ser Val Leu Leu Leu Leu Leu Phe Ser Ser Leu 1 5 10 15

Ile Ser Ser Val Phe Leu Ile Ser Val Val Ile Ser Gly Gln Leu Met

Ala Ala Gln Gly Thr Gly Ile Cys Leu Ala 35 40

<210> 3065

<211> 19

<212> PRT

<213> Homo sapiens

<400> 3065

Met Phe Thr Leu Leu Phe Phe Leu Val Thr Tyr Ile Leu Ile Thr Gly

1 5 10 15

Met Leu Lys

<210> 3066 <211> 39 <212> PRT

<213> Homo sapiens

<400> 3066

Met Leu Gln Leu Phe Leu Ala Ser Phe Ile Val Leu Leu Gln Ile Leu 1 5 10 15

Ile Pro Phe Val Leu Val Met Cys Ala Phe Glu Ala Val Gln Leu Thr 20 25 30

Thr Gln Leu Ser Ser Lys Arg 35

<210> 3067 <211> 305

<212> PRT

<213> Homo sapiens

<400> 3067

Met Glu Ser His Val Phe Leu Lys Ala Lys Thr Arg Asp Glu Tyr Leu

1 5 10 15

Ser Leu Val Ala Arg Leu Ile Ile His Phe Arg Asp Ile His Asn Lys 20 25 30

Lys Ser Gln Ala Ser Val Ser Asp Pro Met Asn Ala Leu Gln Ser Leu 35 40 45

Thr Gly Gly Pro Ala Ala Gly Ala Ala Gly Ile Gly Met Pro Pro Arg
50 55 60

Gly Pro Gly Gln Ser Leu Gly Gly Met Gly Ser Leu Gly Ala Met Gly 65 70 75 80

Gln Pro Met Ser Leu Ser Gly Gln Pro Pro Pro Gly Thr Ser Gly Met 85 90 95

Ala Pro His Ser Met Ala Val Val Ser Thr Ala Thr Pro Gln Thr Gln 100 105 110

Phe Gln Gln Gln Gln Gln Ala Ala Leu Gln Gln Gln Gln Gln Gln Gln I30 135 140

Gln Gln Gln Gln Phe Gln Ala Gln Gln Ser Ala Met Gln Gln Gln Phe 145 150 155 160

Gln Ala Val Val Gln Gln Gln Gln Gln Leu Gln Gln Gln Gln Gln Gln 165 170 175

Gln Gln His Leu Ile Lys Leu His His Gln Asn Gln Gln Gln Ile Gln 180 185 190 Gln Gln Gln Gln Leu Gln Arg Ile Ala Gln Leu Gln Leu Gln Gln 195 200 205

Gln Ala Gln Pro Pro Ile Gln Gln Pro Pro Met Gln Gln Pro Gln Pro 225 230 235 240

Pro Pro Ser Gln Ala Leu Pro Gln Gln Leu Gln Gln Met His His Thr 245 250 255

Gln His His Gln Pro Pro Pro Gln Pro Gln Gln Pro Pro Val Ala Gln 260 265 270

Asn Gln Pro Ser Gln Leu Pro Pro Gln Ser Gln Thr Gln Pro Leu Val 275 280 285

Ser Gln Ala Gln Ala Leu Pro Gly Gln Met Leu Tyr Thr Gln Pro Pro 290 295 300

Ile 305

<210> 3068

<211> 4

<212> PRT

<213> Homo sapiens

<400> 3068

Met Val Cys Ala

1

<210> 3069

· <211> 21

<212> PRT

<213> Homo sapiens

<400> 3069

Met Tyr Phe Ile Pro Leu Leu His Ile Gly Gln Ile Ala Met Cys Met 1 5 10 15

His Ile Leu Phe Ser 20

<210> 3070

<211> 21

<212> PRT

<213> Homo sapiens

<400> 3070

Met Tyr Phe Ile Pro Leu Leu His Ile Gly Gln Ile Ala Met Cys Met

1 5 10 15

<400> 3074

His Ile Leu Phe Ser

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<210> 3071
<211> 25
<212> PRT
<213> Homo sapiens
<400> 3071
Met Lys Gly Ala Asp Lys Ser Ser Thr Leu Ile Leu Cys Phe Leu Ser
Val Leu Pro Cys Cys His Leu His Gly
             20
<210> 3072
<211> 25
<212> PRT
<213> Homo sapiens
<400> 3072
Met Lys Gly Ala Asp Lys Ser Ser Thr Leu Ile Leu Cys Phe Leu Ser
Val Leu Pro Cys Cys His Leu His Gly
             20
<210> 3073
<211> 39
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 3073
Met Xaa His Leu Gly Leu Trp Gly Val Ile Leu Lys Leu Val Val Pro
Gly Asn His Gly Pro Leu Ala Leu Ile Asn Pro Ser Phe Asn Gly Leu
                                  25
              20
Leu His Pro Asp Thr Lys Val
         35
<210> 3074
<211> 9
 <212> PRT
 <213> Homo sapiens
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Met Glu Phe Leu Ser Leu Glu Leu Ala 1 5

<210> 3075 <211> 44

<212> PRT

<213> Homo sapiens

<400> 3075

Met Ile Arg Leu Ser Ala Met Leu Leu Val Glu Met His Val Asn Leu
1 5 10 15

Pro Ala Ser Leu Ser Val Phe Leu Asp Ser Gly Gln Leu Lys Ser Pro 20 25 30

Asn Thr Phe Thr Phe Ala Thr Gln Arg Gly Ser Ser 35

<210> 3076

<211> 39

<212> PRT

<213> Homo sapiens

<400> 3076

Met Val Phe Ile Phe Leu Leu Ser Ile Leu Phe Val Ser Ala Leu Val 1 5 10 15

Phe Ile Thr Ser Phe Leu Leu Leu Ala Leu Asp Leu Ala Cys Ser Ser 20 25 30

Leu Phe Arg Phe Leu Val Val
35

<210> 3077

<211> 46

<212> PRT

<213> Homo sapiens

<400> 3077

Met Asp Gly Trp His Glu Ile Leu Lys Lys Ile Leu Leu Leu Phe Gln 1 5 10 15

Lys Cys His Ser Ser Pro Leu Lys Val Gln Glu Thr Trp Leu Ser Ser 20 25 30

Val Val Tyr Gly Gly Ala Trp Ala Ser Glu Ser Gly Gln Arg 35 40 45

<210> 3078

<211> 95

<212> PRT

<213> Homo sapiens

Val Ser Val Leu Val Phe Asp Phe Arg Pro Ser Leu Glu Phe Phe Leu 20 25 30

Glu Ala Pro Ser Val Leu Leu Ser Ile Phe Ile Tyr Asn Ala Ser Lys 35 40 45

Pro Gln Val Pro Glu Tyr Ala Pro Arg Gln Glu Arg Ile Arg Asp Leu
50 55 60

Ser Gly Asn Leu Trp Glu Arg Ser Ser Gly Asp Gly Glu Glu Leu Glu 65 70 75 80

Arg Leu Thr Lys Pro Lys Ser Asp Glu Ser Asp Glu Asp Thr Phe 85 90 95

<210> 3079

<211> 194

<212> PRT

<213> Homo sapiens

<400> 3079

Met Leu Ala Ala Val Gly Arg Pro Lys Pro Arg Ser Pro Leu Ser Ser 1 5 10 15

Leu Ser Thr Leu Gln Leu Tyr Leu Phe Cys Ser Ser Thr Arg Arg Ala 20 25 30

Asp Met Asp Pro Asn Pro Arg Ala Ala Leu Glu Arg Gln Gln Leu Arg 35 40 45

Leu Arg Glu Arg Gln Lys Phe Phe Glu Asp Ile Leu Gln Pro Glu Thr
50 55 60

Glu Phe Val Phe Pro Leu Ser His Leu His Leu Glu Ser Gln Arg Pro 65 70 75 80

Pro Ile Gly Ser Ile Ser Ser Met Glu Val Asn Val Asp Thr Leu Glu 85 90 95

Gln Val Glu Leu Ile Asp Leu Gly Asp Pro Asp Ala Ala Asp Val Phe 100 105 110

Leu Pro Cys Glu Asp Pro Pro Pro Thr Pro Gln Ser Ser Gly Val Asp 115 120 125

Asn His Leu Glu Glu Leu Ser Leu Pro Val Pro Thr Ser Asp Arg Thr 130 135 140

Thr Ser Arg Thr Ser Ser Ser Ser Ser Ser Asp Ser Ser Thr Asn Leu 145 150 155 160

His Ser Pro Asn Pro Ser Asp Asp Gly Ala Asp Thr Pro Leu Ala Gln
165 170 175

Ser Asp Glu Glu Glu Glu Arg Gly Asp Gly Gly Ala Glu Pro Gly Ala

180 185 190

Cys Ser

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<210> 3080
<211> 22
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<212> PRT

<213> Homo sapiens

<400> 3080

Met Gly Val Arg Ser Arg Ala Trp Ala Phe Leu Thr Phe Thr Ser Thr 1 5 10 15

Leu Ala Thr Arg Ser Arg 20

<210> 3081 <211> 58

<212> PRT

<213> Homo sapiens

<400> 3081

Met Pro Gly Val Gly Trp Ala Gln Ala Leu Lys Ser Pro Phe Cys Leu 1 5 10 15

Val Val Leu His Leu Ala Leu Pro Gly Leu Trp Cys Arg Leu Gly Val 20 25 30

Asp Leu Ser Ser Val Ile Tyr Val Cys Cys Leu Ala Pro Arg Trp Leu 35 40 45

Cys Gly Gln Val Leu Ala Lys Asp Ile Ile 50 55

<210> 3082

<211> 58

<212> PRT

<213> Homo sapiens

<400> 3082

Met Pro Gly Val Gly Trp Ala Gln Ala Leu Lys Ser Pro Phe Cys Leu 1 5 10 15

Val Val Leu His Leu Ala Leu Pro Gly Leu Trp Cys Arg Leu Gly Val 20 25 30

Asp Leu Ser Ser Val Ile Tyr Val Cys Cys Leu Ala Pro Arg Trp Leu
35 40 45

Cys Gly Gln Val Leu Ala Lys Asp Ile Ile 50 55 <210> 3083 <211> 58

<212> PRT

<213> Homo sapiens

<400> 3083

Met Pro Gly Val Gly Trp Ala Gln Ala Leu Lys Ser Pro Phe Cys Leu 1 5 10 15

Val Val Leu His Leu Ala Leu Pro Gly Leu Trp Cys Arg Leu Gly Val 20 25 30

Asp Leu Ser Ser Val Ile Tyr Val Cys Cys Leu Ala Pro Arg Trp Leu 35 40 45

Cys Gly Gln Val Leu Ala Lys Asp Ile Ile 50 55

<210> 3084

<211> 443

<212> PRT

<213> Homo sapiens

<400> 3084

Met Ala His His Leu Tyr Val Leu Gln Ala Leu Met Leu Gly Leu Leu 1 5 10 15

Glu Pro Arg Met Arg Thr Pro Leu Asp Pro Tyr Ser Gln Glu Gln Arg 20 25 30

Glu Gln Leu Gln Val Leu Arg Gln Ala Ala Phe Glu Val Glu Gly Glu 35 40 45

Ser Ser Gly Ala Gly Leu Ser Ala Asp Arg Arg Ser Leu Cys Ala 50 55 60

Arg Glu Phe Arg Lys Leu Gly Phe Ser Asn Ser Asn Pro Ala Gln Asp
65 70 75 80

Leu Glu Arg Val Pro Pro Gly Leu Leu Ala Leu Asp Asn Met Leu Tyr 85 90 95

Phe Ser Arg Asn Ala Pro Ser Ala Tyr Ser Arg Phe Val Leu Glu Asn 100 105 110

Ser Ser Arg Glu Asp Lys His Glu Cys Pro Phe Ala Arg Gly Ser Ile 115 120 125

Gln Leu Thr Val Leu Leu Cys Glu Leu Leu Arg Val Gly Glu Pro Cys 130 135 140

Ser Glu Thr Ala Gln Asp Phe Ser Pro Met Phe Phe Gly Gln Asp Gln 145 150 155 160

Ser Phe His Glu Leu Phe Cys Val Gly Ile Gln Leu Leu Asn Lys Thr 165 170 175

Trp Lys Glu Met Arg Ala Thr Gln Glu Asp Phe Asp Lys Val Met Gln
180 185 190

Val Val Arg Glu Gln Leu Ala Arg Thr Leu Ala Leu Lys Pro Thr Ser 195 200 205

Leu Glu Leu Phe Arg Thr Lys Val Asn Ala Leu Thr Tyr Gly Glu Val 210 220

Leu Arg Leu Arg Gln Thr Glu Arg Leu His Gln Glu Gly Thr Leu Ala 225 230 235 240

Pro Pro Ile Leu Glu Leu Arg Glu Lys Leu Lys Pro Glu Leu Met Gly 245 250 255

Leu Ile Arg Gln Gln Arg Leu Leu Arg Leu Cys Glu Gly Thr Leu Phe 260 265 270

Arg Lys Ile Ser Ser Arg Arg Gln Asp Lys Leu Trp Phe Cys Cys 275 280 285

Leu Ser Pro Asn His Lys Leu Leu Gln Tyr Gly Asp Met Glu Gly 290 295 300

Ala Ser Pro Pro Thr Leu Glu Ser Leu Pro Glu Gln Leu Pro Val Ala 305 310 315 320

Asp Met Arg Ala Leu Leu Thr Gly Lys Asp Cys Pro His Val Arg Glu 325 330 335

Lys Gly Ser Gly Lys Gln Asn Lys Asp Leu Tyr Glu Leu Ala Phe Ser 340 345 350

Ile Ser Tyr Asp Arg Gly Glu Glu Glu Ala Tyr Leu Asn Phe Ile Ala 355 360 365

Pro Ser Lys Arg Glu Phe Tyr Leu Trp Thr Asp Gly Leu Ser Ala Leu 370 375 380

Leu Gly Ser Pro Met Gly Ser Glu Gln Thr Arg Leu Asp Leu Glu Gln 385 390 395 400

Leu Leu Thr Met Glu Thr Lys Leu Arg Leu Leu Glu Leu Glu Asn Val405 410 415

Pro Ile Pro Glu Arg Pro Pro Pro Val Pro Pro Pro Pro Thr Asn Phe 420 425 430

Asn Phe Cys Tyr Asp Cys Ser Ile Ala Glu Pro 435

<210> 3085

<211> 31

<212> PRT

<213> Homo sapiens

<400> 3085

Met Lys Ile Pro Leu Tyr Trp Arg Ser His Glu Met Gly Leu Ser Tyr 1 5 10 15

Thr Cys Leu Leu Trp His Ala Ile Trp Gln Gln Gly Trp Gly Gly

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<210> 3086
<211> 31
<212> PRT
<213> Homo sapiens
<400> 3086
<210> 3087
<211> 32
<212> PRT
<400> 3087
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Met Leu Leu Pro Leu Cys Trp Ser Ser Ser Tyr Ser Ile Phe Ile Phe

Trp Ala Thr Glu Arg Asp Ser Cys Leu Glu Lys Lys Lys Lys 25

<213> Homo sapiens

Leu Ile Val Leu Leu Val Val Phe Leu Pro Gln Ser Ser Asp Ser Ser

Ser Ala Pro Arg Thr Gln Asp Ala Gly Ile Ala Ser Gly Pro Gly Asn 25

<210> 3088 <211> 51 <212> PRT <213> Homo sapiens

<400> 3088 Met Pro Gly Arg Arg Pro Pro Leu Ala Met Trp Gln Pro Leu Leu

Cys Leu Thr Ser Ala Phe Gln Arg Ala Pro Ile Leu Leu Ser His Lys

Ile Asn Leu Met Pro Ser Gly Lys Lys Lys Lys Lys Lys Lys Lys 35

Lys Lys Lys 50

<210> 3089 <211> 37 <212> PRT <213> Homo sapiens <400> 3089

Met Pro Arg Pro Ala Cys Leu Leu Ile Phe Ile Ser Gly His Thr Leu
1 5 10 15

Leu Ala Leu Pro Val Cys Pro Ala Pro Ala His Ala Pro Pro Pro Arg 20 25 30

Ala Ala Ser Val Leu 35

<210> 3090

<211> 59

<212> PRT

<213> Homo sapiens

<400> 3090

Met Thr Arg Leu Leu Val Ala Leu Leu Phe Ser Ser Phe Leu Lys Leu
1 5 10 15

Arg Glu Val Glu Ser Ile Ser Lys Ile Lys Asn Lys Met Ser Lys Arg

Gln Asp Leu Arg Thr Gly Trp Ala Cys Ser Asn Met Thr Ala Cys Thr 35 40 45

Leu Trp Gly Lys Ile Tyr Trp Ser Ser Gln Val
50 55

<210> 3091

<211> 39

<212> PRT

<213> Homo sapiens

<400> 3091

Lys Ala Ala Leu Ser Gly Ser Glu Ile Met Cys His Phe Trp Trp Val

Ala Gly Pro Ala Ile Ala Asn Tyr His Lys Gln Lys Cys Ile Leu Leu 20 25 30

Tyr Asn Ser Gly Gly Lys Val

<210> 3092

<211> 120

<212> PRT

<213> Homo sapiens

<400> 3092

Gln Gly Arg Val Val Pro Val His Leu Val Leu Leu Pro Gly Val Leu
1 5 10 15

Ile Pro His Gly Pro Pro Met Cys Gly Pro Asp Pro Lys Tyr Pro Gln 20 25 30

Asp Asn His Glu His Gln Glu Ala Asp Ala His His Asp His Asn Cys

35 40 45

Arg Ser Ala Gly Asp Asp Cys Gly Arg Met Arg Gly Arg Asp Ala Arg 50 55 60

Ser Leu Gly Pro Glu Gly His Cys Ala Leu Asp Leu Leu Gly Cys Ala
65 70 75 80

Trp Ser Lys Arg Ala Gly Gln His Ala Ser Ala Glu Pro Thr Gly Gln 85 90 95

Glu Glu Ile Pro Gly Lys Ala Arg His Gly Pro Pro Thr Trp Leu Gly
100 105 110

His Val Leu Leu His Ser Cys Gly

<210> 3093 <211> 45 <212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3093

Met Phe Leu Gln Gln Leu Trp Trp Gln Leu Ser Leu Arg Asn Leu Trp 1 5 10 15

Cys Val Val Gly Ser Tyr Gln Asn Lys Lys Cys Arg His Phe Pro Phe 20 25 30

Phe Trp Gly Xaa Xaa Val Gly Gly Xaa Ala Leu Pro Ser 35 40 45

<210> 3094

<211> 20

<212> PRT

<213> Homo sapiens

<400> 3094

Met Ala Cys Phe Leu Ala Val Val Met Trp Val Phe Leu Pro Val Gly
1 5 10 15

Ser Cys Pro Leu

<213> Homo sapiens

20

<400> 3095

Met Pro Ile Thr Tyr Pro Phe Cys Ile Leu Glu Ile Ile Ile Ile Leu 1 5 10 15

Tyr Cys Leu Pro Pro Ser Pro Val Phe Gly Thr Leu Glu Ser Thr Thr 20 25 30

Asn Cys Leu Tyr Glu Lys Lys Lys Lys Lys Asn Ser 35 40

<210> 3096

<211> 35

<212> PRT

<213> Homo sapiens

<400> 3096

Met Ala Leu Asn Thr Ile Ser His Gln Ile Tyr Leu Pro Pro Gly Pro

Leu Pro Cys Pro Trp Ala Ser Cys Ile Leu Leu Pro Thr Cys Thr Tyr 20 25 30

Val Trp Thr 35

<210> 3097

<211> 33

<212> PRT

<213> Homo sapiens

<400> 3097

Thr Lys Pro Pro Leu Ser Val Leu Phe Trp Gly Val Gly Trp Val Cys

1 5 10 15

Val Trp Gly Trp Val Gly Met Gly Asn Pro Ser Pro Ser Arg Ser Trp 20 25 30

Gly

<210> 3098

<211> 39

<212> PRT

<213> Homo sapiens

<400> 3098

1650

 Met Ile Ile Leu Asn Thr Ile Lys Val Leu Ile Leu Phe Val Phe Val 1 5 10 15

Phe Met Met Cys Asp Asn Ile Leu Gly Ile Thr Gln Lys Glu Leu Tyr 20 25 30

Phe Phe Lys Lys Phe Thr Phe 35

<210> 3099

<211> 29

<212> PRT

<213> Homo sapiens

<400> 3099

Met Trp Leu Gln Gly Leu Pro Ala Ala Ile Leu His Ala Ala Gly Ser

Ala Phe His Asp Pro Arg Gln Gln Pro Gly Pro His Ser 20 25

<210> 3100

<211> 33

<212> PRT

<213> Homo sapiens

<400> 3100

Met Ile Gly Cys Val Ile Pro Tyr Ile Leu Ile Leu Asn Tyr Ile Ile 1 5 10 15

Gly Gly Ser Phe Cys Phe Thr Leu Met Cys Pro Gly Asp Ser Cys Leu 20 25 30

Ala

<210> 3101

<211> 48

<212> PRT

<213> Homo sapiens

<400> 3101

Met Met Val Ile Val Cys Val Ile Val Gln Lys Ala Leu Ser Val Pro 1 5 10 15

Ser Pro Leu Gln Gly Thr Leu Leu Thr Pro Ile Leu Gln Gly Leu Leu 20 25 30

Gln Met Pro Phe Ser Pro Gly Lys Pro Phe Arg Ile Leu Ser Trp Ile 35 40 45

<210> 3102 <211> 49 <212> PRT <213> Homo sapiens <400> 3102 Met His Thr His Gly Ser Cys Leu Ser Met His Trp Phe Cys His Trp 10 Arg Pro Gly Ile Arg Pro Cys Trp Gly Ala Gly Ala Val Arg Leu Arg Leu Ile Leu Ala Arg Ala His Thr Ser Lys Gly Gln Ala Gly Ser Ala Trp <210> 3103 <211> 34 <212> PRT <213> Homo sapiens <400> 3103 Met Ala Ala Cys Cys Ser Ala Leu Leu Leu Leu Phe Pro Pro Cys Phe His Leu Cys Ser Leu Glu Ala Phe Pro Ser Trp Cys Val Gln Asp Ser Ser Trp <210> 3104 <211> 34 <212> PRT <213> Homo sapiens <400> 3104 Met Ala Ala Cys Cys Ser Ala Leu Leu Leu Phe Pro Pro Cys Phe . 5 His Leu Cys Ser Leu Glu Ala Phe Pro Ser Trp Cys Val Gln Asp Ser 25 20

Ser Trp

<210> 3105 <211> 21 <212> PRT <213> Homo sapiens <400> 3105

```
Leu Leu Leu His Ser Val His Leu Leu Leu Tyr Glu Met Thr Leu Arg
                    10
1 5
```

Pro Pro Ile Leu Leu 20

```
<210> 3106
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<211> 36

<212> PRT

<213> Homo sapiens

<400> 3106

Met Thr Gln Asn Asp Leu Ala Ala Val Leu Leu Arg Trp Arg Arg Pro 5

Gly Leu Gly Trp Cys Ser Arg Leu Leu Thr Ala Cys Cys Leu Pro Thr 25

Leu Pro Ala Ser 35

<210> 3107

<211> 4

<212> PRT

<213> Homo sapiens

<400> 3107

Met Cys Ala Phe 1

<210> 3108

<211> 29

<212> PRT

<213> Homo sapiens

<400> 3108

Pro Gln Val Val Cys Arg Val Val Phe Thr Pro Cys Gln Ser Pro His 5

Ser Pro Ala Arg Gln Thr Val Phe Asn Ser Phe His Gly 20

<210> 3109

<211> 49

<212> PRT

<213> Homo sapiens

<400> 3109

Glu Trp Gly Gly Leu Arg Lys Leu Ile Ile Cys Ala Cys Phe Pro Phe 10

Thr Phe Cys His Asp Cys Lys Phe Leu Lys Pro Pro Gln Pro Phe Leu 25 20

```
Arg
<210> 3110
<211> 36
<212> PRT
<213> Homo sapiens
<400> 3110
Cys Leu Gln Ile Ala Ser Cys Phe Pro Phe Cys Gln Ile Leu Ile Ile
Phe Phe Phe Gln Lys Gly Lys Lys Lys His Lys Gln Pro Asn Phe Ile
Phe His Ile Val
         35
<210> 3111
<211> 10
<212> PRT
<213> Homo sapiens
<400> 3111
Met Lys Thr Phe Val Cys Ala Phe Asp Leu
                 5
<210> 3112
<211> 31
<212> PRT
<213> Homo sapiens
Met Lys Met Thr Phe Met Tyr Gly Arg Leu Thr Phe Phe Leu Ser Leu
 Pro Thr Leu Tyr Leu Cys Tyr Phe Tyr Leu Pro Asn Lys Ile Pro
              20
 <210> 3113
 <211> 84
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> SITE
 <222> (25)
 <223> Xaa equals any of the naturally occurring L-amino acids
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Thr Ala Asn Arg Thr Val Ser Lys Ser Asn Phe Leu Ser Phe Ser Leu 35 40 45

Cys Gln Thr Leu Leu Pro Trp Lys Xaa Pro Leu Glu Lys Val Trp His 20 25 30

His Gln Asp Gly Gln Val Gly Ser Gly Leu Ser Val Gln Pro Arg Thr 35 40 45

Gln Pro Pro Val Ser Trp Leu Ala Val Pro Gly Leu Ala Pro Phe Gln 50 55 60

Gln Leu Ser Arg Pro Gly Arg Ser Gly Leu Ser Cys Ser Asp Ser Tyr 65 70 75 80

Ser Leu Ile Leu

<210> 3114

<211> 46

<212> PRT

<213> Homo sapiens

<400> 3114

Met Gln Val Lys Val Pro Ser Gly Arg Leu Ala Val Thr Pro Phe Arg

1 5 10 15

Leu Leu Ala Val Ala Leu Trp Thr Val Ser Phe Leu Pro Leu 20 25 30

Arg Arg Val Val Gly Thr Ala Thr Ser Arg Leu Pro Asp Arg
35 40 45

<210> 3115

<211> 10

<212> PRT

<213> Homo sapiens

<400> 3115

Ser Met Val Trp Leu Leu Gly Trp Cys Leu
1 5 10

<210> 3116

<211> 35

<212> PRT

<213> Homo sapiens

<400> 3116

Met Lys Ser Gly Cys Leu Lys Glu Ser Gly Thr Pro Pro Phe Ser Cys

1 10 15

Ser Cys Ser Cys Ser Pro His Asp Val Thr Cys Leu Leu Ser Leu Cys 20 25 30

Val Leu Pro

```
<210> 3117
<211> 28
<212> PRT
<213> Homo sapiens
<400> 3117
Met Val Asn Met Gly Ser Ala Trp Pro Phe Leu Tyr Gly Tyr Phe Ser
                                      10
Leu Lys Met Val Leu Met Phe Ile His Ile Tyr Ser
<210> 3118
<211> 7
<212> PRT
<213> Homo sapiens
<400> 3118
Met Val Asp Glu Lys Gly Phe
<210> 3119
<211> 4
<212> PRT
<213> Homo sapiens
<400> 3119
Gly Phe Asp Leu
<210> 3120
<211> 60
<212> PRT
<213> Homo sapiens
<400> 3120
Met Gly Ser Trp Ala Pro Gly Thr Ala Met Ala Arg Ala Leu Leu Cys
Gly Cys Arg Ser Gly Ser Trp Gly Cys Gly Trp Trp Gly Ser Leu Gly
Gly Ala Ala Ser Pro Ala Glu Gly Leu Phe Arg Ala Leu Gly Ala Val
                              40
 Ser Arg Gly Ser Pro Leu Cys Val Ser Arg Ala Pro
                         55
```

<210> 3122 <211> 119 <212> PRT <213> Homo sapiens

Cys Phe Ser His Ser Cys Gly Cys Arg Asn Leu Ile Tyr Arg Glu Glu 20 25 30

Pro Val Ala Ala Ala Pro Ala Thr Ala Ala Leu Thr Val Leu Thr 35 40 45

Thr His Leu Gly Gln Pro Ser Leu Ala Gly Ala Leu Val Ala Ser His 50 55 60

Phe Pro Phe Pro Ser Leu Trp Leu Arg Gly Gly Val Arg Gly Trp Arg 65 70 75 80

Gly Arg Ala Ala Tyr His Gly Leu Gly Leu Glu Glu Asp Glu Phe Val

Asp Leu Asn Lys Glu Phe Val Ile Leu Lys Lys Lys Lys Lys Lys 100 105 110

Lys Lys Lys Lys Lys Lys 115

<210> 3123 <211> 6 <212> PRT <213> Homo sapiens <400> 3123 Met Ala Ala Arg Gly Leu 1 5

<210> 3124 <211> 36 <212> PRT <213> Homo sapiens

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<400> 3124
Val Cys Ser Asn Met Arg Ser Arg Ser Gly Thr Ser Ser Pro Ala Arg
Trp Gly Pro Ala Thr Ser Arg Ile Thr Trp Pro Ser Cys Ser Ile Thr
                                 25
Val Arg Glu Pro
         35
<210> 3125
<211> 49
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 3125
Met Gly Leu Val Arg Tyr Val Ser Ile Ser Leu Cys Trp Phe Phe Cys
Leu Gln Lys Pro Arg Phe Leu Phe Leu Phe Glu Lys Lys Lys Lys
             20
Lys Xaa Gly Gly Leu Xaa Xaa Gly Pro Gly Ala His Gly Phe Ser His
Pro
<210> 3126
<211> 49
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (38)
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<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 3126
Met Gly Leu Val Arg Tyr Val Ser Ile Ser Leu Cys Trp Phe Phe Cys
Leu Gln Lys Pro Arg Phe Leu Phe Leu Phe Glu Lys Lys Lys Lys
Lys Xaa Gly Gly Leu Xaa Xaa Gly Pro Gly Ala His Gly Phe Ser His
Pro
<210> 3127
<211> 43
<212> PRT
<213> Homo sapiens
<400> 3127
Met Asn Gln Cys Arg Cys Ile Gln Phe Phe Phe Trp Lys Trp Lys Leu
His Phe Ile Ile Val Ile Leu Arg Val Ile Gln Asp Phe Glu Lys Ser
Phe Gly Lys Asn Arg Lys Met Leu Glu Lys Ile
         35
<210> 3128
<211> 12
<212> PRT
<213> Homo sapiens
<400> 3128
Met Ser Cys Thr Leu Cys Phe Gly Ser Tyr Val Leu
<210> 3129
<211> 32
<212> PRT
<213> Homo sapiens
<400> 3129
Met Lys Ser Leu Leu Pro Gly Phe Gly Tyr Cys Gln Ser Ser Pro Ala
Ser Phe Leu Tyr Pro Phe Leu Ser Phe Pro Ser Leu Pro Arg Ser Ser
```

25

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<210> 3130
<211> 43
<212> PRT
<213> Homo sapiens
<400> 3130
Met Gly Val Phe Thr Tyr Thr Cys Leu Leu Leu Thr Val Leu Gly Lys
                                     10
Ser Cys Lys Ile Val Thr His Ser Ala Val Ile Ser Leu Phe Leu Phe
Val Lys Asp Ser Lys Lys Lys Lys Asn Ser
<210> 3131
<211> 41
<212> PRT
<213> Homo sapiens
<400> 3131
Met Thr Ile Ser Ser Gln Phe Leu Phe Phe Ile Phe Tyr Phe His Leu
                                     10
Tyr Val Phe Glu Gly Arg Gly Lys Ile Lys Val Cys Ala His Tyr Thr
Ile Leu Val Phe Pro Lys Ser Val Pro
         35
<210> 3132
<211> 33
<212> PRT
<213> Homo sapiens
<400> 3132
Met Gly Leu Val Arg Tyr Val Ser Ile Ser Leu Cys Trp Phe Phe Cys
Leu Gln Lys Pro Arg Phe Leu Phe Leu Phe Glu Lys Lys Lys Lys
             20
Lys
```

<210> 3133 <211> 66

<212> PRT

<400> 3133 Met Gly Leu Gln Asp Asn Arg Ile Leu Ser Pro Phe Leu Ala Ile Trp Val Leu Phe Phe Lys Ser Phe Gly Leu Gly Arg Ala Leu Phe Phe Cys Phe Asp Ile Phe Ile Phe Ser Ala Val Thr Gly Cys Gln His Asn Leu His Gln Leu Glu Ile Arg Asn Gln Lys Lys Lys Lys Ile Leu Thr Thr 65 <210> 3134 <211> 39 <212> PRT <213> Homo sapiens <400> 3134 Met Gly Arg Leu Gly Arg Glu Leu Arg Thr Ala Tyr Leu Leu Phe Ile Leu Arg Leu Ser Tyr Thr Ser Ala Gly Leu Ser Leu Arg Gly Thr Ile 25 Ser Ser Val Ser Gln Pro Gln 35 <210> 3135 <211> 30 <212> PRT <213> Homo sapiens <400> 3135 Met Trp Ile Leu Ser Cys Ile Phe Met Ile Asn Val Ile Val Ala Val Leu Pro Met Arg Val Gly Leu Glu Gly Leu Asn Asn Leu Ser 20 <210> 3136 <211> 38 <212> PRT <213> Homo sapiens <400> 3136 Met Pro Leu Asn Ser Leu Pro Gln Leu Ala Phe His Trp Glu Leu Pro

5

20

10

Leu Gln Phe Leu Val Val Leu Val Cys Met Thr Leu Gly Ile Thr Val 25

His His Pro His Gln Ser 35

<210> 3137

<211> 243

<212> PRT

<213> Homo sapiens

<400> 3137

Leu Ala Ala Leu Ser Leu His Ala Ala Gly Ser Val Leu Gly Val Pro 1 5 10 15

Pro Arg Ala Ala Val His Pro Ala Arg Arg Gly Arg Pro Ala Ala Gly
20 25 30

Pro Gly Gly Leu Leu His Leu Pro Gly Gly Gln Pro Pro Glu Gly Pro 35 40 45

Val Pro Pro His Gly Trp Ala Leu Pro His Leu Gly Gln Glu Ala Gln
50 60

Gly His Arg Val Leu Leu His Ile Arg Arg Arg Ala Glu Ala Pro Gln 65 70 75 80

Gln Ala Ala Gly Val Gly Leu Leu Gly Arg Gly Pro Pro Leu Gln Leu 85 90 95

Arg Arg Arg Pro Asp Gly Gln Pro Gly Leu Leu Pro Gly Leu Trp Arg 100 105 110

Trp Pro Pro Ala Ala Leu Leu His His Leu His Gly His Pro Ala 115 120 125

Asp Pro Pro Leu Pro Pro Gly Arg Ala Pro Leu Arg Gln Gln Val Arg 130 135 140

Pro Gly Leu Gly Ala Leu His Arg Arg Ser Ala Leu Pro Pro Ala Ala 145 150 155 160

Trp Asn Leu Leu Arg Ala Arg Pro Arg Glu Lys Pro Cys Gly Ala Val 165 170 175

Lys Ser Val Phe Cys Gln Val His Gly Gly Trp His Pro Ser Ser Asn 180 185 190

Ser Arg Ser Leu Ser Phe Leu Ile Cys Lys Leu Glu Arg Ala Gln His 195 200 205

Leu Ala Gly Val Gln Tyr Leu Ile Thr Leu Cys Ser Leu Leu Pro 210 215 220

Ser Arg Glu Phe Arg Val Ser Ser Thr Ala Val Leu Pro Ala Gln Thr 225 230 235 240

Asp Phe Leu

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<210> 3138
<211> 33
<212> PRT
<213> Homo sapiens
<400> 3138
Met Leu Cys Ser Trp Phe Phe Leu Pro Leu Phe Leu Thr Ile Leu Asn
Ile Ala Thr Thr Ser Thr Leu Cys Lys His Gln Val Cys Ala Pro Tyr
Thr
<210> 3139
<211> 44
<212> PRT
<213> Homo sapiens
<400> 3139
Val Ser Leu Ser Cys Phe Leu Thr Leu Leu Pro Gly Leu Leu Cys Val
His Leu Arg Leu Ala Trp Ser Lys Gln Val Arg Pro Leu Leu Leu Tyr
Ser Leu Val Leu Phe Trp His Leu Val Lys Leu Ala
<210> 3140
<211> 117
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (117)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 3140
Met Asp Leu Ser His Leu Leu Ala Leu Trp Cys His Pro Gly Leu His
```

Phe Phe Arg Thr Glu Ser Leu Asn Ser Pro Phe Ile Leu Leu Leu Leu 85 90 95

Lys Lys Lys Xaa 115

<210> 3141

<211> 39

<212> PRT

<213> Homo sapiens

<400> 3141

Met Tyr Leu Ser Ile Ser Ile Phe Phe Phe Gly Phe Cys Ile Ile Ser 1 5 10 15

Cys Lys Cys Ile Val Lys Asn Phe Ile Phe Gly Val Ala Met Arg Gly 20 25 30

Gly Glu Val Arg Leu Cys Thr 35

<210> 3142

<211> 32

<212> PRT

<213> Homo sapiens

<400> 3142

Met Pro Arg Gly Phe Thr Trp Leu Arg Tyr Leu Gly Ile Phe Leu Gly
1 5 10 15

Val Ala Leu Gly Asn Glu Pro Ser Glu Asn Val Ala Leu Asp Ala Glu 20 25 30

<210> 3143

<211> 31

<212> PRT

<213> Homo sapiens

<400> 3143

Met Gln Cys Ile Ile Ile Phe Ser Ile Leu Phe Cys Leu Phe Phe Cys

1 5 10 15

Ser Cys Leu Thr Gln Asn Ile Lys Leu Val Leu Gln Pro Thr Ile 20 25 30

<210> 3144

<211> 50

<212> PRT <213> Homo sapiens

<400> 3144

Met Trp Ile Pro Leu Arg Pro Ala Pro Leu His Trp Ser Trp Arg Leu
1 5 10 15

Ile Trp Glu Ala Val Cys Ala Leu Ala Pro Glu Gly Thr Trp Ser Thr

Pro His Leu Glu Asn Pro His Pro Glu His Ser Phe Pro Gly Ala Pro 35 40 45

Leu Thr 50

<210> 3145

<211> 85

<212> PRT

<213> Homo sapiens

<400> 3145

Met Val Gly Gly Pro Pro Phe Val Gly Pro Val Gly Phe Gly Pro Gly
1 5 10 15

Asp Arg Ser His Leu Asp Ser Pro Glu Ala Arg Glu Pro Cys Ser Cys
20 25 30

Gly Gly Gln Leu Trp Pro Pro Arg Gly Pro Leu Ser Cys Val Gln Pro 35 40 45

Ser Ser Pro Thr Cys Tyr Arg Glu Gln Gln Pro Ala Pro Ala Leu Trp 50 55 60

Pro Tyr Gly Pro Leu Thr Arg Pro Ser Trp Ala Pro Leu Cys Leu Gly 65 70 75 80

Pro Leu Asp His Pro

<210> 3146

<211> 67

<212> PRT

<213> Homo sapiens

<400> 3146

Met Val Ser Leu Ala Leu Thr Leu Thr Ile Pro Ser Pro Ile Leu Trp 1 5 10 15

Thr Ile Cys Met Ala Ile Leu Arg Val Arg Thr Pro Cys Glu Arg Pro 20 25 30

Ser Ser Ser Cys Ile Gln Thr Gly Gln Thr Val Thr Thr Leu Arg Pro

Ala Val Lys His Trp Trp His Ser Ser Leu Thr Thr Ser Gly Trp Ser 50 55 60

```
Pro Gln Trp
65
<210> 3147
<211> 28
<212> PRT
<213> Homo sapiens
<400> 3147
Met Tyr Ile Lys Leu Leu Ile Val Leu Leu Glu Ser Phe Ala Leu Leu
Ser Cys Leu Met Glu Gln Phe Leu Met Glu Met Cys
<210> 3148
<211> 39
<212> PRT
<213> Homo sapiens
<400> 3148
Met Ile Trp Ala Leu Gly Asn Leu Glu Val Leu Gly Leu Cys Leu Cys
Ser Ser Ile Phe Ile Arg Lys Glu Ser Ile Gly Leu Leu Gln Gly Ile
Asn Pro Phe Val Thr Tyr His
         35
<210> 3149
<211> 54
<212> PRT
<213> Homo sapiens
<400> 3149
Met Lys Ala His Lys Ser Ser Gly Tyr Asn Gly Leu Leu Gly Ile Leu
Leu Tyr Leu Ile Tyr Phe Leu Leu Phe Asp Ile Phe Gln Gln Phe Val
Leu Gly Pro Ser Trp Glu Ala Ser Val Ile Leu Lys Leu Gln Ile Cys
         35
Ile Ser Asn Leu Lys Gly
     50
<210> 3150
<211> 38
<212> PRT
<213> Homo sapiens
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<400> 3150 Met Ser Leu Asn Phe Val Arg Ile Phe Ile Ile Val Phe His Ile Cys 1 5 10 15

Glu Ile Ser Ser Phe Phe Arg Val His Arg Val Ser Leu Phe Tyr Arg 20 25 30

Phe Leu Lys Met Arg Phe 35

<210> 3151

<211> 179

<212> PRT

<213> Homo sapiens

<400> 3151

Met Gly Leu Ile Phe Ala Lys Leu Trp Ser Leu Phe Cys Asn Gln Glu
1 5 10 15

His Lys Val Ile Ile Val Gly Leu Asp Asn Ala Gly Lys Thr Thr Ile 20 25 30

Leu Tyr Gln Phe Leu Met Asn Glu Val Val His Thr Ser Pro Thr Ile 35 40 45

Gly Ser Asn Val Glu Glu Ile Val Val Lys Asn Thr His Phe Leu Met 50 55 60

Trp Asp Ile Gly Gly Gln Glu Ser Leu Arg Ser Ser Trp Asn Thr Tyr 65 70 75 80

Tyr Ser Asn Thr Glu Phe Ile Ile Leu Val Val Asp Ser Ile Asp Arg 85 90 95

Glu Arg Leu Ala Ile Thr Lys Glu Glu Leu Tyr Arg Met Leu Ala His 100 \$105\$

Glu Asp Leu Arg Lys Ala Ala Vál Leu Ile Phe Ala Asn Lys Gln Asp 115 120 125

Met Lys Gly Cys Met Thr Ala Ala Glu Ile Ser Lys Tyr Leu Thr Leu 130 135 140

Ser Ser Ile Lys Asp His Pro Trp His Ile Gln Ser Cys Cys Ala Leu 145 150 155 160

Thr Gly Glu Gly Leu Cys Gln Gly Leu Glu Trp Met Thr Ser Arg Ile 165 170 175

Gly Val Arg

<210> 3152

<211> 81

<212> PRT

Leu Lys Leu Asp Leu Ala Arg Tyr Ser Leu Pro Cys Trp Arg Phe Ile 20 25 30

Pro Thr Asn Gln Leu Cys Gly Leu Trp Gln Pro Asn Gly Lys Trp Lys
35 40 45

Ile Asp Cys Leu Gln Lys Ala Gln Gly Asn Tyr Phe Phe Ala His Cys 50 55 60

Ala Phe Ile Gln Ser Ala Gln Asn Phe Ile Lys Asn Thr Leu Gly Trp 65 70 75 80

Ser

<210> 3153 <211> 55

<212> PRT

<213> Homo sapiens

<400> 3153

Met Phe Ile Tyr Glu Ser Asn Ile Ala Asn Leu Ser Leu Ile Ile Leu
1 5 10 15

Phe Leu Lys His Gln Val Tyr Ser Gln Cys Val Ala Leu Met Thr Ile 20 25 30

Ser Trp Glu Arg Asn Arg Thr Ala Ile Met Thr Asn Gly Lys Asp Ser

Lys Ala Val Ser Asp Gly Lys 50 55

<210> 3154

<211> 29

<212> PRT

<213> Homo sapiens

<400> 3154

Met Ser Leu Leu Pro Ser Met Tyr Leu Leu Cys Ser Thr Val Glu Ile 1 5 10 15

Phe Leu Pro Ile Phe Lys Leu Gly Phe Phe Phe Cys Tyr 20 25

<210> 3155

<211> 31

<212> PRT

Cys Ala Glu Ser Met Pro Pro Val Gly Ile Arg Phe Tyr Leu Phe 20 25 30

<210> 3156 <211> 33 <212> PRT

<213> Homo sapiens

Ser Ser Ala Glu Gly Ile Ile Ile Ser His Arg Thr Val Met Lys Thr 20 25 30

Lys

<210> 3157 <211> 24 <212> PRT

<213> Homo sapiens

<400> 3157

Met Arg Asn Gln Gly Ala Trp Leu Trp Val Ser Ser Ile Cys Leu Ala 1 5 10 15

Cys Gly Ala Ser Cys Gly Asp Gln 20

<210> 3158 <211> 43

<212> PRT

<213> Homo sapiens

<400> 3158

Met Pro Ala Arg Thr Ser Gly Lys Gln Ser His Ile Cys Glu Asn Ser 1 5 10 15

Gly Arg Arg Cys Ser Leu Leu Leu Leu Val Lys Cys Leu Glu Arg Arg 20 25 30

Gly Arg Ser Pro Thr Lys Gly Thr Pro Ser Gly 35

<210> 3159

<211> 32

<212> PRT

Cys Phe Leu Phe Phe Phe Ser Pro Ala Pro Ser Val Cys His Met Phe 20 25 30

<210> 3160

<211> 56

<212> PRT

<213> Homo sapiens

<400> 3160

Met Pro Thr Trp Val Leu Cys Gly Arg Thr Ser Leu Leu Ser His Ser 1 5 10 15

Trp Cys Gly Ser Gly Gln Gln Met Lys Thr Pro Leu Pro Thr Thr Arg 20 25 30

Ser Pro Thr Ala Leu Ser Val His Leu Ser Leu Ala Ala Thr Ser Thr 35 40 45

Ser Ala Cys Thr Arg Ala Met Glu 50 55

<210> 3161

<211> 63

<212> PRT

<213> Homo sapiens

<400> 3161

Met Leu Pro Gln Met Tyr Leu Lys Ser Arg His Ser Phe Thr Lys Glu
1 1 5 15

Glu Glu Ala Val Leu Phe Cys Leu Ile Ala Leu Val Thr Lys Leu Met 20 25 30

Phe Thr Ser Leu Ser Leu Ala Pro Gly Ser Ala Leu Ile Leu Gln Lys 35 40 45

Thr Glu Leu Lys Ser Gln Ala Tyr Phe Pro Val Gly Leu Cys Leu 50 55 60

<210> 3162

<211> 34

<212> PRT

<213> Homo sapiens

<400> 3162

Gly Leu Val Val Leu Phe Leu Pro Ser Ser Leu Ala Leu Leu Lys

1 5 10 15

Ser His Arg Leu Arg Met Arg Arg Ala Val Lys Asp Thr Ser Ser Ala 20 25 30

Ala Phe

<210> 3163

<211> 42

<212> PRT

<213> Homo sapiens

<400> 3163

Met Cys Gly Val Cys Leu Cys Leu Leu Pro Arg Thr Ile Thr Ser Phe 1 5 10 15

Pro Phe Ser His Ile Thr Ala Leu Leu Ala Ala Ala Val Val Cys Cys 20 25 30

Lys Ser Glu Leu Ile Asn Pro Thr Glu Tyr 35

<210> 3164

<211> 100

<212> PRT

<213> Homo sapiens

<400> 3164

Met Trp His Leu Leu Val Phe Ile Val Cys Val Phe Phe Val Tyr Tyr 1 5 10 15

Thr Leu Gly Asn Phe Val Leu Pro Lys Lys Lys Lys Gly Ser Val

Met Ser Asp Thr Gln Glu Lys Gln Ile Ser Val Val Ser Leu Lys Tyr 35 40 45

Asn Phe Lys Gly His Tyr Gln Gln Gln Gly Phe Phe Tyr Thr Leu Lys 50 55 60

Thr Leu Cys Tyr Ile Ser Leu Pro Phe Ser Tyr Phe Gly Val Leu Leu 65 70 75 80

Leu Leu Tyr Asn Gly Ile Asn Gly Asn Val Ile Gln Pro Leu Asn Cys 85 90 95

His Tyr Tyr Ile 100

<210> 3165

<211> 41

<212> PRT

<213> Homo sapiens

<400> 3165

Trp Gly Cys Gln Lys Trp Arg Leu Gln Pro Pro Arg Val Ser Ser Ser 1 5 10 15

Gly Ala Pro Cys Phe Val Pro Pro Ser Cys Ala Ile Gln Arg Gly Pro 20 25 30

Pro Gly Leu Ala Glu Thr Pro Pro Gly

<210> 3166

<211> 3

<212> PRT

<213> Homo sapiens

<400> 3166 Met Glu Met 1

<210> 3167

<211> 30

<212> PRT

<213> Homo sapiens

<400> 3167

Met Pro Gly Val Phe Phe Phe Phe Val Phe Phe Phe Asn Ser Tyr Phe 1 5 10 15

Gly Cys Ala Leu Val Ser Gln Cys Ser Phe Asn Leu His Phe 20 25 30

<210> 3168

<211> 60

<212> PRT

<213> Homo sapiens

<400> 3168

Met Arg Ser Val Pro Ala Ile Leu Gln Met Leu Trp Ile Leu Arg Arg 1 5 10 15

Ser Thr Asn Trp Thr Leu Tyr Leu Ile Leu His Gly Cys Pro Ala Val 20 25 30

Val Cys Ala Trp Pro Arg Gln His Ala Pro Trp Gly Met Val Arg Leu 35 40 45

Trp Val Pro Thr Ala Ala Pro Ala Ala Leu Ser Pro 50 55 60

<210> 3169

<211> 38

<212> PRT

Ile Asn Thr Val Asp Phe Cys Glu Met Cys Gly Val Phe Ser Pro Asp 20 25 30

Thr Lys Gln Val Leu Thr 35

<210> 3170

<211> 21

<212> PRT

<213> Homo sapiens

<400> 3170

Val His Lys Lys His Ser Thr Gly Thr Lys Ser Phe Ser Lys Pro Ala 1 5 10 15

Val Phe Gly Glu His

<210> 3171

<211> 57

<212> PRT

<213> Homo sapiens

<400> 3171

Met Ala Leu Asp Ser Ser Thr Leu Val Ala Leu Leu Gly Thr Ala Pro 1 10 15

Leu Leu Ala Ala Phe Thr Ala Gly Val Glu Cys Leu Trp Leu Phe Gln 20 25 30

Ala Leu Ser Ala Ser Cys Pro Trp Ile Asp His Ser Gly Val Trp Arg 35 40 45

Thr Val Ala Leu Phe Ser Gln Leu His
50 55

<210> 3172

<211> 51

<212> PRT

<213> Homo sapiens

<400> 3172

Met Ala Pro Cys Cys Trp Ala Leu Trp Val Gly Ser Ala Pro Trp Glu
1 5 10 15

Pro Ala Ser Met Pro Gly Pro His Ser Ser His Ser Cys Trp Ser Leu 20 25 30

Ala Pro Trp Pro Leu Cys Ser Ser Ile Leu Trp Val Trp Gly Arg Arg 35 40 45

Thr Ser Ala 50

<210> 3173

<211> 35

<212> PRT

<213> Homo sapiens

<400> 3173

Met Leu Ala Val Leu Ser Leu Cys Asn Phe Cys Arg Cys Ser Leu Gly
1 5 10 15

Arg Glu Leu Phe Phe Arg Arg Leu Ala Lys Ser Gln Val Leu Ser Leu 20 25 30

Asp Leu Arg 35

<210> 3174

<211> 186

<212> PRT

<213> Homo sapiens

<400> 3174

Leu Ala Gly Arg Leu Pro His Pro Gly Arg Pro Ala Ala Gln Leu Leu 1 5 10 15

Arg Val Cys Arg Thr His Glu Ala Pro Gly Gly His Gly Pro Ala Gly 20 25 30

Leu Gly Ala Ala Ala Thr Leu Pro Ala Pro Ala Arg Pro Glu Arg Leu 35 40 45

Pro Gly Pro Arg Leu Cys Ala Leu Arg Arg Gly Arg Leu Gly His Gly 50 55 60

Ala Gly Ala Leu Arg Pro Ala Arg Val Arg Gly Glu Leu Arg Gln Gly 65 70 75 80

Pro Gly Arg Ala Gln Thr Pro Arg Pro Pro Ser Cys Ser Pro Ser Trp 85 90 95

Ala Ser Leu Thr Ser Ser Arg Gly Arg Pro Arg Ala Ser Trp Arg Gly
100 105 110

Leu Gly Arg Cys Gly Pro Thr Pro Ser Thr Ser Ser Ala Ser Pro Cys
115 120 125

Ser Ser Thr Ala Ser Arg Thr Trp Arg Ala Leu Arg Arg Ala Thr Thr 130 140

Ala Ala Ser Trp Ser Ser Ala Ser Ser Leu Ala Ser Pro Thr Ala Trp 145 150 155 160

Trp Gly Pro Cys Ser Ser Arg Cys Ser Trp Pro Ser Trp Ala Pro Thr 165 170 175 Ser Ser Pro Val Pro Leu Ala Trp Cys Cys 180 185

<210> 3175

<211> 57

<212> PRT

<213> Homo sapiens

<400> 3175

Met Thr Leu Leu Leu Leu Ser Leu Thr Pro His Pro Asn Ala His Cys
1 5 10 15

Cys Cys Pro Lys Arg Thr Tyr Gln Cys Val Asp Val Ser Arg Lys Val 20 25 30

Pro Phe Leu Phe Gly Leu Val Val Leu Asp Cys Phe Leu Thr Ser Phe 35 40 45

Asn Phe Ser His Phe Leu Thr Asp Tyr
50 55

<210> 3176

<211> 23

<212> PRT

<213> Homo sapiens

<400> 3176

Glu Lys Ser Arg Lys Val Gly His Ser Trp Ile Tyr Phe Phe Phe Ser 1 5 10 15

Leu Ile Asn Ile Phe Pro Tyr
20

<210> 3177

<211> 453

<212> PRT

<213> Homo sapiens

<400> 3177

Met Ser Ile Val Thr Val Gln Leu Gly Gln Cys Gly Asn Gln Ile Gly
1 5 10 15

Phe Glu Val Phe Asp Ala Leu Leu Ser Asp Ser His Ser Ser Gln Gly 20 25 30

Leu Cys Ser Met Arg Glu Asn Glu Ala Tyr Gln Ala Ser Cys Lys Glu 35 40 45

Arg Phe Phe Ser Glu Glu Glu Asn Gly Val Pro Ile Ala Arg Ala Val 50 55 60

Leu Val Asp Met Glu Pro Lys Val Ile Asn Gln Thr Leu Ser Lys Ala 65 70 75 80

Ala Gln Ser Gly Gln Trp Lys Tyr Gly Gln His Ala Cys Phe Cys Gln

				85					90					95	
Lys	Gln	Gly	Ser 100	Gly	Asn	Asn	Trp	Ala 105	Tyr	Gly	Tyr	Ser	Val 110	His	Gly
Pro	Arg	His 115	Glu	Glu	Ser	Ile	Met 120	Asn	Ile	Ile	Arg	Lys 125	Glu	Val	Glu
Lys	Cys 130	Asp	Ser	Phe	Ser	Gly 135	Phe	Phe	Ile	Ile	Met 140	Ser	Met	Ala	Gly
Gly 145	Thr	Gly	Ser	Gly	Leu 150	Gly	Ala	Phe	Val	Thr 155	Gln	Asn	Leu	Glu	Asp 160
Gln	Tyr	Ser	Asn	Ser 165	Leu	Lys	Met	Asn	Gln 170	Ile	Ile	Trp	Pro	Tyr 175	Gly
Thr	Gly	Glu	Val 180	Ile	Val	Gln	Asn	Туг 185	Asn	Ser	Ile	Leu	Thr 190	Leu	Ser
His	Leu	Туг 195	Arg	Ser	Ser	Asp	Ala 200	Leu	Leu	Leu	His	G1u 205	Asn	Asp	Ala
Ile	His 210	Lys	Ile	Суѕ	Ala	Lys 215	Leu	Met	Asn	Ile	Lys 220	Gln	Ile	Ser	Phe
Ser 225	Asp	Ile	Asn	Gln	Val 230	Leu	Ala	His	Gln	Leu 235	Gly	Ser	Val	Phe	Gln 240
Pro	Thr	Tyr	Ser	Ala 245	Glu	Ser	Ser	Phe	His 250	Tyr	Arg	Arg	Asn	Pro 255	Leu
Gly	Asp	Leu	Met 260	Glu	His	Leu	Val	Pro 265	His	Pro	Glu	Phe	Lys 270	Met	Leu
Ser	Val	Arg 275	Asn	Ile	Pro	His	Met 280	Ser	Glu	Asn	Ser	Leu 285	Ala	Tyr	Thr
Thr	Phe 290	Thr	Trp	Ala	Gly	Leu 295	Leu	Lys	His	Leu	Arg 300	Gln	Met	Leu	Ile
Ser 305	Asn	Ala	Lys	Met	Glu 310	Glu	Gly	Ile	Asp	Arg 315	His	Val	Trp	Pro	Pro 320
Leu	Ser	Gly	Leu	Pro 325	Pro	Leu	Ser	Lys	Met 330	Ser	Leu	Asn	Lys	Asp 335	Leu
His	Phe	Asn	Thr 340	Ser	Ile	Ala	Asn	Leu 345	Val	Ile	Leu	Arg	Gly 350	Lys	Asp
Val	Gln	Ser 355		Asp	Val	Glu	Gly 360	Phe	Lys	Asp	Pro	Ala 365	Leu	Tyr	Thr
Ser	Trp 370	Leu	Lys	Pro	Val	Asn 375		Phe	Asn	Val	Trp 380	Lys	Thr	Gln	Arg
Ala 385		Ser	Lys	Tyr	Glu 390		Ser	Ala	Val	Leu 395		Ser	Asn	Ser	Gln 400

Phe Leu Val Lys Pro Leu Asp Met Ile Val Gly Lys Ala Trp Asn Met 405 410 415

Phe Ala Ser Lys Ala Tyr Ile His Gln Tyr Thr Lys Phe Gly Ile Glu 420 425 430

Glu Glu Asp Phe Leu Asp Ser Phe Thr Ser Leu Glu Gln Val Val Ala 435 440 445

Ser Tyr Cys Asn Leu 450

<210> 3178

<211> 21

<212> PRT

<213> Homo sapiens

<400> 3178

Met Arg Ala Arg Pro Ser Pro Ser Pro Leu Arg Ser Trp Ala Cys Arg
1 5 10 15

Pro Pro Cys Cys Cys 20

<210> 3179

<211> 78

<212> PRT

<213> Homo sapiens

<400> 3179

Met Gly His Leu Ile Gln Arg Lys Lys Val His Val Phe Gly Asp Glu
1 10 15

Leu Ser Leu Val Thr Leu Phe Arg Cys Ile Gln Asn Met Pro Glu Thr 20 25 30

Leu Pro Asn Asn Ser Cys Tyr Ser Ala Gly Ile Ala Lys Leu Glu Glu 35 40 45

Gly Asp Glu Leu Gln Leu Ala Ile Pro Arg Glu Asn Ala Gln Ile Ser 50 55 60

Leu Asp Gly Asp Val Thr Phe Phe Gly Ala Leu Lys Leu Leu 65 70 75

<210> 3180

<211> 32

<212> PRT

<213> Homo sapiens

<400> 3180

Met Thr Gln Val Thr Ile Ser Lys Leu Gly Arg Leu Leu Leu Ala 1 5 10 15

Leu Pro Leu Cys Pro Ile Ser Cys Gln Tyr Ser Gln Phe Ser Arg Glu 20 25 30

```
<210> 3181
<211> 35
<212> PRT
<213> Homo sapiens
<400> 3181
Met Asp His Phe Leu Val Phe Phe Phe Leu Ile Gly Ala Leu Asn Lys
                                     10
Tyr Gly Thr Trp Thr Lys Arg Phe Ser Gly Ile Leu Trp Lys Leu Thr
Phe Leu Thr
         35
<210> 3182
<211> 68
<212> PRT
<213> Homo sapiens
<400> 3182
Phe Phe Phe Phe Phe Phe Lys Leu His Gly Thr Glu Phe Asn Val
Asn His Glu Met Arg Gln Lys Pro Pro Pro Gly Arg Trp Glu Asp Pro
             20
Ala Pro Asn Gln Thr Leu Glu His Ala Ala Leu Asn Gln Thr Pro Gly
                             40
Arg Gly Cys Val Val Met His Arg Leu Arg Leu Arg Gly Glu Asp Gly
                          55
     50
Lys Thr Gln Pro
 65
<210> 3183
<211> 50
<212> PRT
<213> Homo sapiens
Met Ala Val Ala Leu Glu Thr Val Leu Ile Ile Phe Ser Leu Phe Gly
 Thr Thr Leu Thr Lys Leu Val Val Leu Leu His Val Gln Lys Leu
                                  25
```

Asp Ile Leu Tyr Met Gln Gln Phe Ser Tyr Ala Thr Met Arg Gln Glu 40

35

Glu His

j.

FL

<210> 3184 <211> 8 <212> PRT <213> Homo sapiens <400> 3184 Met Lys Leu Tyr Phe Leu Met Cys

<210> 3185 <211> 97 <212> PRT <213> Homo sapiens

50

Gly Leu Gly Leu Cys Ser Leu His Asp Arg Pro Ala Leu Val Val Gly 20 25 30

Ala His Arg Val Pro Thr Pro Gly Leu His Cys Gly Cys Leu Arg Val 35 40 45

Pro Ala Asp Asp Arg Leu Pro Pro Gly Ala Ala Pro Thr Leu Gln Arg 50 55 60

Gly Arg Glu Cys Glu Ala Gly Pro Cys Glu Ala Gln Gly Ala Asp Leu 65 70 75 80

Ser Gly Gln Gly Pro Ser Pro His Ser Ala Ala Leu Ala Leu Ser Ile 85 90 95

His

<210> 3186 <211> 310 <212> PRT <213> Homo sapiens <220> <221> SITE

<222> (127)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3186 Met Val Tyr Lys Thr Leu Phe Ala Leu Cys Ile Leu Thr Ala Gly Trp $1 \ 5 \ 10 \ 15$

Arg Val Gln Ser Leu Pro Thr Ser Ala Pro Leu Ser Val Ser Leu Pro 20 25 30

Thr Asn Ile Val Pro Pro Thr Thr Ile Trp Thr Ser Ser Pro Gln Asn 35 40 45

Thr Asp Ala Asp Thr Ala Ser Pro Ser Asn Gly Thr His Asn Asn Ser 50 55 60

Val Leu Pro Val Thr Ala Ser Ala Pro Thr Ser Leu Leu Pro Lys Asn 65 70 75 80

Ile Ser Ile Glu Ser Arg Glu Glu Glu Ile Thr Ser Pro Gly Ser Asn 85 90 95

Trp Glu Gly Thr Asn Thr Asp Pro Ser Pro Ser Gly Phe Ser Ser Thr 100 105 110

Ser Gly Gly Val His Leu Thr Thr Thr Leu Glu Glu His Ser Xaa Gly 115 120 125

Thr Pro Glu Ala Gly Val Ala Ala Thr Leu Ser Gln Ser Ala Ala Glu 130 135 140

Pro Pro Thr Leu Ile Ser Pro Gln Ala Pro Ala Ser Ser Pro Ser Ser 145 150 155 160

Leu Ser Thr Ser Pro Pro Glu Val Phe Ser Ala Ser Val Thr Thr Asn 165 170 175

His Ser Ser Thr Val Thr Ser Thr Gln Pro Thr Gly Ala Pro Thr Ala 180 185 190

Pro Glu Ser Pro Thr Glu Glu Ser Ser Ser Asp His Thr Pro Thr Ser 195 200 205

His Ala Thr Ala Glu Pro Val Pro Gln Glu Lys Thr Pro Pro Thr Thr 210 215 220

Val Ser Gly Lys Val Met Cys Glu Leu Ile Asp Met Glu Thr Thr Thr 225 230 235 240

Thr Phe Pro Arg Val Ile Met Gln Glu Val Glu His Ala Leu Ser Ser 245 250 255

Gly Ser Ile Ala Ala Ile Thr Val Thr Val Ile Ala Val Leu Leu 260 265 270

Val Phe Gly Val Ala Ala Tyr Leu Lys Ile Arg His Ser Ser Tyr Gly 275 280 285

Arg Leu Leu Asp Asp His Asp Tyr Gly Ser Trp Gly Asn Tyr Asn Asn 290 295 300

Pro Leu Tyr Asp Asp Ser 305 310

<210> 3187

<211> 64

<212> PRT

Pro Cys Cys Gln His Ile Gln Lys Gly Ala Ala Cys Pro Lys Thr Val $20 \hspace{1cm} 25 \hspace{1cm} 30$

Asn Leu Arg Arg Pro Gln Leu Ser Gly Leu Leu Ile Ser Trp Arg Phe
35 40 45

Leu Lys Cys Ile Leu Leu Asp Phe Asn Gly Trp Val Trp Lys Ser Pro 50 55 60

<210> 3188

<211> 16

<212> PRT

<213> Homo sapiens

<400> 3188

Met Ala Leu Ser Phe Ile Phe Pro Ser Asp Phe Cys Pro Ser Phe Leu 1 5 10 15

<210> 3189

<211> 16

<212> PRT

<213> Homo sapiens

<400> 3189

Met Val Val Leu Phe Leu Phe Pro Ile Thr Val Leu Ala Leu Lys Leu 1 5 10 15

<210> 3190

<211> 31

<212> PRT

<213> Homo sapiens

<400> 3190

Met Ser Ala Ser Leu Asn His Ile Lys Val Ser Ser Val Trp Leu Leu 1 5 10 15

Leu Leu Phe Glu Met Val Leu Cys Phe Gly Cys Gly Leu Lys Leu 20 25 30

<210> 3191

<211> 39
<212> PRT
<213> Homo sapiens

<400> 3191
Met Lys Glu Gln Leu Ala Gln Phe Leu Lys Val Thr Ser Ser Phe Arg
1 5 10 15

Leu Leu Leu Leu Leu Thr Trp Met Gly Leu Gly Ile Ala Pro Leu Thr
20 25 30

Leu Cys Tyr Thr Ala Ile Thr

Leu Cys Tyr Thr Ala Ile Thr 35

<210> 3192 <211> 39 <212> PRT <213> Homo sapiens

<400> 3192

Met Lys Glu Gln Leu Ala Gln Phe Leu Lys Val Thr Ser Ser Phe Arg
1 5 10 15

Leu Leu Leu Leu Thr Trp Met Gly Leu Gly Ile Ala Pro Leu Thr 20 25 30

Leu Cys Tyr Thr Ala Ile Thr 35

<210> 3193 <211> 39 <212> PRT <213> Homo sapiens

Leu Leu Leu Leu Thr Trp Met Gly Leu Gly Ile Ala Pro Leu Thr 20 25 30

Leu Cys Tyr Thr Ala Ile Thr 35

<210> 3194 <211> 35 <212> PRT <213> Homo sapiens <400> 3194

Met Leu Arg Val Met Asn Leu Phe His Leu Leu Phe Glu Ile Ala Thr 1 5 10 15

Cys Leu Ile Cys Leu Ser Ile Ser Ser Lys Asn Ser Gly Glu Asn Ser 20 25 30

```
Met Ile Glu
         35
<210> 3195
<211> 37
<212> PRT
<213> Homo sapiens
<400> 3195
Met Leu Asp Phe Leu Arg Ser Gln Leu Lys Leu Leu Ser Tyr Leu Leu
Leu Gly Phe Leu Leu Leu Arg Gln Arg Gly Ile Gly Arg Thr Ser Glu
Ile Phe Val Asn Ser
         35
<210> 3196
<211> 23
<212> PRT
<213> Homo sapiens
<400> 3196
Met Ser Gln Ala Cys Leu Gln Leu Ala Met Leu Ser Pro Ser Pro Leu
                                      10
Pro Gly Gly Thr Thr Ala Lys
             20
<210> 3197
<211> 310
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (307)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 3197
Met Met Phe Leu Ala Val Gly Ile Tyr Ala Leu Phe Val Ser Thr Asn
 Tyr Trp Glu Arg Tyr Tyr Thr Leu Val Pro Ser Ala Val Ala Leu Gly
                                   25
 Met Ala Ile Val Pro Leu Trp Ala Ser Met Gly Asn Tyr Ile Thr Arg
                              40
 Met Ala Gln Lys Tyr His Glu Tyr Ser His Tyr Lys Glu Gln Asp Gly
      50
                          55
```

Gln Gly Met Lys Gln Arg Pro Pro Arg Gly Ser His Ala Pro Tyr Leu

65					70					75					80
Leu	Val	Phe	Gln	Ala 85	Ile	Phe	Tyr	Ser	Phe 90	Phe	His	Leu	Ser	Phe 95	Ala
Суѕ	Ala	Gln	Leu 100	Pro	Met	Ile	Tyr	Phe 105	Leu	Asn	His	Tyr	Leu 110	Tyr	Asp
Leu	Asn	His 115	Thr	Leu	Tyr	Asn	Val 120	Gln	Ser	Cys	Gly	Thr 125	Asn	Ser	His
Gly	Ile 130	Leu	Ser	Gly	Phe	Asn 135	Lys	Thr	Val	Leu	Arg 140	Thr	Leu	Pro	Arg
Ser 145	Gly	Asn	Leu	Ile	Val 150	Val	Glu	Ser	Val	Leu 155	Met	Ala	Val	Ala	Phe 160
Leu	Ala	Met	Leu	Leu 165	Val	Leu	Gly	Leu	Cys 170	Gly	Pro	Leu	Thr	Gly 175	Pro
Arg	Arg	Arg	Ser 180	Ile	Cys	Ala	Ala	Trp 185	Ala	Gly	Ala	Thr	Ser 190	Ser	Ser
Сув	Pro	Ser 195	Ser	Thr	Cys	Val	Thr 200	Thr	Ala	Cys	Ala	Thr 205	Ser	Cys	Leu
Ser	Leu 210	Ser	Thr	Ala	Ala	Ser 215	Arg	Cys	Ser	Leu	Pro 220	Ala	Leu	Val	Ser
Pro 225	Trp	Ala	Met	Ala	Cys 230	Ala	Arg	Trp	Gly	Trp 235	Ser	Gly	Trp	Leu	Thr 240
Ser	Ser	Trp	Leu	Thr 245	Ala	Trp	Ala	Pro	Gln 250	Pro	Pro	His	Ser	Trp 255	Ala
Суз	Trp	Ala	Cys 260	Gly	Cys	His	Ala	Arg 265	Cys	Pro	Trp	Trp	Pro 270	Glu	Gln
Gly	Cys	Thr 275	Cys	Cys	Ser	Pro	Ser 280	Ser	Ser	Phe	Ser	Gly 285	Pro	Leu	Cys
Leu	Gly 290	Ser	Cys	Asn	Thr	Ala 295		Ser	Ser	Met	Trp 300	Gln	Leu	Pro	Phe
Gly 305		Xaa	Ala	Val	Pro 310										
<210> 3198 <211> 310 <212> PRT															

<213> Homo sapiens

<400> 3198

Met Met Phe Leu Ala Val Gly Ile Tyr Ala Leu Phe Val Ser Thr Asn 1 5 10 15

Tyr Trp Glu Arg Tyr Tyr Thr Leu Val Pro Ser Ala Val Ala Leu Gly 20 25 30

Met Ala Ile Val Pro Leu Trp Ala Ser Met Gly Asn Tyr Ile Thr Arg 35 40 45

Met Ala Gln Lys Tyr His Glu Tyr Ser His Tyr Lys Glu Gln Asp Gly 50 55 60

Gln Gly Met Lys Gln Arg Pro Pro Arg Gly Ser His Ala Pro Tyr Leu 65 70 75 80

Leu Val Phe Gln Ala Ile Phe Tyr Ser Phe Phe His Leu Ser Phe Ala 85 90 95

Cys Ala Gln Leu Pro Met Ile Tyr Phe Leu Asn His Tyr Leu Tyr Asp 100 105 110

Leu Asn His Thr Leu Tyr Asn Val Gln Ser Cys Gly Thr Asn Ser His 115 120 125

Gly Ile Leu Ser Gly Phe Asn Lys Thr Val Leu Arg Thr Leu Pro Arg 130 135 140

Ser Gly Asn Leu Ile Val Val Glu Ser Val Leu Met Ala Val Ala Phe 145 150 155 160

Leu Ala Met Leu Leu Val Leu Gly Leu Cys Gly Pro Leu Thr Gly Pro 165 170 175

Arg Arg Arg Ser Ile Cys Ala Ala Trp Ala Gly Ala Thr Ser Ser Ser 180 185 190

Cys Pro Ser Ser Thr Cys Val Thr Thr Ala Cys Ala Thr Ser Cys Leu 195 200 205

Ser Leu Ser Thr Ala Ala Ser Arg Cys Ser Leu Pro Ala Leu Val Ser 210 215 220

Pro Trp Ala Met Ala Cys Ala Arg Trp Gly Trp Ser Gly Trp Leu Thr 225 230 235 240

Ser Ser Trp Leu Thr Ala Trp Ala Pro Gln Pro Pro His Ser Trp Ala 245 250 255

Cys Trp Ala Cys Gly Cys His Ala Arg Cys Pro Trp Trp Pro Glu Gln 260 265 270

Gly Cys Thr Cys Cys Ser Pro Ser Ser Ser Phe Ser Gly Pro Leu Cys 275 280 285

Leu Gly Ser Cys Asn Thr Ala Gly Ser Ser Met Trp Gln Leu Pro Phe 290 295 300

Gly Val Trp Ala Val Pro 305 310

<210> 3199

<211> 370

<212> PRT

<213> Homo sapiens

<220> <221> SITE <222> (370) <223> Xaa equals any of the naturally occurring L-amino acids <400> 3199 Met Met Phe Leu Ala Val Gly Ile Tyr Ala Leu Phe Val Ser Thr Asn Tyr Trp Glu Arg Tyr Tyr Thr Leu Val Pro Ser Ala Val Ala Leu Gly Met Ala Ile Val Pro Leu Trp Ala Ser Met Gly Asn Tyr Ile Thr Arg Met Ala Gln Lys Tyr His Glu Tyr Ser His Tyr Lys Glu Gln Asp Gly Gln Gly Met Lys Gln Arg Pro Pro Arg Gly Ser His Ala Pro Tyr Leu Leu Val Phe Gln Ala Ile Phe Tyr Ser Phe Phe His Leu Ser Phe Ala Cys Ala Gln Leu Pro Met Ile Tyr Phe Leu Asn His Tyr Leu Tyr Asp 100 Leu Asn His Thr Leu Tyr Asn Val Gln Ser Cys Gly Thr Asn Ser His 120 115 Gly Ile Leu Ser Gly Phe Asn Lys Thr Val Leu Arg Thr Leu Pro Arg 135 Ser Gly Asn Leu Ile Val Val Glu Ser Val Leu Met Ala Val Ala Phe 150 Leu Ala Met Leu Leu Val Leu Gly Leu Cys Gly Ala Ala Tyr Arg Pro 170 Thr Glu Glu Ile Asp Leu Arg Ser Val Gly Trp Gly Asn Ile Phe Gln 185 180 Leu Pro Phe Lys His Val Arg Asp Tyr Arg Leu Arg His Leu Val Pro 200 Phe Phe Ile Tyr Ser Gly Phe Glu Val Leu Phe Ala Cys Thr Gly Ile Ala Leu Gly Tyr Gly Val Cys Ser Val Gly Leu Glu Arg Leu Ala Tyr 235 230 Leu Leu Val Ala Tyr Ser Leu Gly Ala Ser Ala Ala Ser Leu Leu Gly 250 Leu Leu Gly Leu Trp Leu Pro Arg Pro Val Pro Leu Val Ala Gly Ala 265 Gly Val His Leu Leu Leu Thr Phe Ile Leu Phe Phe Trp Ala Pro Val 275 280

Pro Arg Val Leu Gln His Ser Trp Ile Leu Tyr Val Ala Ala Ala Leu

290 295 300

Trp Gly Val Gly Ser Ala Leu Asn Lys Thr Gly Leu Ser Thr Leu Leu 305 310 315 320

Gly Ile Leu Tyr Glu Asp Lys Glu Arg Gln Asp Phe Ile Phe Thr Ile 325 330 335

Tyr His Trp Trp Gln Ala Val Ala Ile Phe Thr Val Tyr Leu Gly Ser 340 345 350

Ser Leu His Met Lys Ala Lys Leu Ala Val Leu Leu Val Thr Leu Val 355 360 365

Ala Xaa 370

<210> 3200

<211> 137

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3200

Met Val Ser Val Cys Phe Tyr Phe Ile Arg Asp Tyr Phe Trp Trp Leu 1 5 10 15

Leu Thr Tyr Thr Phe Phe Ala Leu Met Leu Gln Phe Leu Val Met Leu 20 25 30

Thr Lys Cys Gly Phe Ser Phe Leu Lys Ser Cys Leu Gly Phe Ile Val 35 40 45

Phe Gly Phe Cys Glu Xaa Phe Ser His Lys Ile Trp Lys Asn Ser Ala 50 55 60

Phe Ser Ser Ser Val Thr Ala Phe Cys Phe Cys Pro Pro Ser Phe Ala 65 70 75 80

Ile Leu Ile Glu Arg Arg Pro Phe Tyr Ser Leu Ser Cys Leu Leu Thr 85 90 95

Ser Phe Phe Cys Phe Pro Phe Leu Cys Leu Ser Val Leu Pro Ser Asp 100 105 110

Tyr Phe Ile Arg Thr Ile Cys Gln Phe Pro Asn Ser Leu Phe Gly Phe 115 120 125

Val Ser Ser Val Ile Arg Asn Ile Tyr 130 135

<210> 3201

<211> 10

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<212> PRT
<213> Homo sapiens
<400> 3201
Met Ile Gln Cys Cys Ile Met Ile Leu Leu
<210> 3202
<211> 39
<212> PRT
<213> Homo sapiens
<400> 3202
Met Met Gln Val Pro Asp Leu Glu Leu Gly Leu Leu Leu Ala Thr Phe
Leu Leu His Leu Leu Asp Ala Leu Pro Met Leu Leu Ser Leu Gln Ser
                                 25
Cys Arg Glu Pro Thr Ser Ser
         35
<210> 3203
<211> 50
<212> PRT
<213> Homo sapiens
<400> 3203
Met Phe Leu Ser Ser Asn Phe Pro Ile Phe Ser Ile Leu Phe Phe Ala
Phe Pro Tyr Phe Cys Leu Pro Val Phe His Phe Lys Leu Leu Ser Ser
Pro Asn Cys Phe Ile Leu Pro Leu Pro Ile Asn Leu Ser Ile Phe Val
Cys Val
    50
<210> 3204
<211> 50
<212> PRT
<213> Homo sapiens
<400> 3204
Met Phe Leu Pro Ser Asn Phe Pro Ile Phe Ser Ile Leu Phe Phe Ala
                                     10
Phe Pro Tyr Phe Cys Leu Pro Val Phe His Phe Lys Leu Leu Ser Ser
             20
                                  25
Pro Asn Cys Phe Ile Leu Pro Leu Pro Ile Asn Leu Ser Ile Phe Val
```

40

```
Cys Val
     50
<210> 3205
<211> 32
<212> PRT
<213> Homo sapiens
<400> 3205
Met Ala Lys Ile His Val Met Ser Ile Asn Leu Tyr Phe Leu Ser Pro
                                      10
Ala Leu Leu Ser Met Ala Met Gly Leu Thr Pro Glu Gly Cys Lys Ser
<210> 3206
<211> 55
<212> PRT
<213> Homo sapiens
<400> 3206
Met His Ala His Ile Trp Pro Tyr Leu Tyr Met Cys Ala His Ile His
Met His Leu Cys Thr Tyr Met Pro Ile His Thr His Thr His Thr His
             20
                                 25
Ala His Thr His Gln Pro Gln Ser His Ser Phe Cys Gly Gly Thr Ser
                              40
Gly Leu Arg Ala Ala Pro Gly
     50
<210> 3207
<211> 23
<212> PRT
<213> Homo sapiens
<400> 3207
Met Ala Pro Ile Met Arg Leu Leu Glu Ala Ile Phe Met Thr Ala Ile
Val Pro Ser Val Leu Gln Leu
             20
```

<210> 3208 <211> 49 <212> PRT <213> Homo sapiens

Cys Arg Leu Ser Pro Asn His Lys Val Leu His Tyr Gly Asp Leu Glu 20 25 30

Glu Ser Pro Gln Gly Glu Val Pro His Asp Ser Leu Gln Asp Lys Arg
35 40 45

Lys

<210> 3209

<211> 29

<212> PRT

<213> Homo sapiens

<400> 3209

Val Ile Val Ile Val Gln Leu Cys Ile Phe Tyr Ala Ser Tyr Ser Ala 1 5 10 15

Trp His Ile Val Gly Ala Gln Leu Thr Leu Leu Lys Glu
20 25

<210> 3210

<211> 126

<212> PRT

<213> Homo sapiens

<400> 3210

Met Gly Ile Ile Gly Cys Phe Pro Thr Leu Ala Phe Lys Ile Pro
1 10 15

Ile Leu Leu Ser Phe Trp Phe Ile Cys Ser Lys Ala His Ile Glu Glu 20 25 30

Glu Ile Ser Gly Phe Ser Met Leu Phe Tyr Tyr Leu Phe Ser Leu Leu
35 40 45

Lys Leu Ile Gln Thr Tyr Leu Leu Thr Pro Phe Ser Leu Leu Thr Phe 50 60

Thr Thr Asn Thr Ser Lys Ile Ile Phe Leu Ile Val Lys Arg Phe Cys
65 70 75 80

Gln Asp Phe His Cys Asn Gly Cys Tyr Arg Asp Gly Pro Ser Ser Ser 85 90 95

Ser Pro Val Val Ser Ser Asn Tyr Lys Met Phe Lys Leu Ser Glu Asn 100 105 110

Leu Lys Ser His His Cys Ser Gln Ser Ala Tyr Thr Ser Ser 115 120 125

<213> Homo sapiens

```
<210> 3211
<211> 52
<212> PRT
<213> Homo sapiens
<400> 3211
Met His Thr Ala Cys Leu Cys Asn Ala Ile Ile Ala Leu Leu Lys Val
Pro Leu Ser Phe Gln Arg Tyr Phe Phe Pro Glu Thr Thr Val Tyr Gln
His Gln Ala Cys Ser Val Thr Ile Ala Pro Glu Ser Cys Arg Ala His
Cys Cys Pro Glu
    50
<210> 3212
<211> 50
<212> PRT
<213> Homo sapiens
<400> 3212
Met Val Ser Cys Leu Leu Arg Thr Ala Arg Gln His Cys Val Cys Glu
Asp Val Leu His Leu Leu Leu Cys Ala Ser Gln Leu Leu Leu Lys
             20
Gln Leu Ser Leu Leu Phe Gly Phe Leu Arg Leu Leu Ala Ser Glu Arg
                             40
His Leu
     50
<210> 3213
<211> 37
<212> PRT
<213> Homo sapiens
<400> 3213
Met Lys Arg Arg Glu Arg Arg Trp Lys Trp Phe Phe Phe Phe Phe Phe
                                    10
Tyr Phe Leu Ser Phe Phe Phe Phe Phe Leu Val Asn Ser Arg Phe
             20
                                 25
Ser Ser Ser Lys Phe
         35
<210> 3214
<211> 34
<212> PRT
```

<400> 3214 Met Lys Asn Ile Ile Ala Ile Ser Pro Lys Phe Leu Ser Trp Leu Gly 1 5 10 15

Trp Gly Arg Phe Leu Leu Trp Thr Ile Ser Gly Thr Tyr Ser Met Lys 20 25 30

Ser Arg

<210> 3215 <211> 37

<212> PRT

<213> Homo sapiens

<400> 3215

Met Leu Cys Ser Leu Leu Leu Leu Phe Leu Leu Phe Val Ile Pro 1 5 10 15

Lys Ser Pro Trp Gln His Thr Ser Gly Trp Phe Ala Thr Cys Ser Glu 20 25 30

Arg Leu Ile Lys Asn 35

<210> 3216 <211> 75 <212> PRT

<213> Homo sapiens

<400> 3216

Met Gln Met Leu Arg Lys Leu Phe Thr Ala Ile Arg Ala Leu Phe Leu 1 5 10 15

Ala Val Cys Val Leu Lys Val Ile Val Ser Leu Val Ser Leu Gly Val 20 25 30

Gly Leu Arg Asn Leu Cys Gly Gln Ser Ser Gln Pro Leu Asn Glu Glu 35 40 45

Gly Ser Glu Lys Arg Leu Leu Gly Glu Asn Ser Val Pro Pro Ser Pro 50 55 60

Ser Arg Glu Gln Thr Ser Thr Ala Ile Val Leu 65 70 75

<210> 3217

<211> 35

<212> PRT

<213> Homo sapiens

<400> 3217

Met Leu His Leu Cys Ser Leu Leu Gln Gly Val Leu Gly Lys Cys Arg

1 5 10 15

```
Tyr Val Tyr Tyr Gly Lys Asn Ser Glu Gly Asn Arg Phe Ile Arg Asp
                                 25
Asp Gln Leu
         35
<210> 3218
<211> 25
<212> PRT
<213> Homo sapiens
<400> 3218
Phe Gln Cys Pro Cys Val His Val Ser Ala Leu Gln Glu Leu Ala Ala
Gly Val Leu Gly Gly Pro Arg Pro Val
<210> 3219
<211> 9
<212> PRT
<213> Homo sapiens
<400> 3219
Met His Ser Cys Arg Asn His Asp Arg
<210> 3220
<211> 37
<212> PRT
<213> Homo sapiens
<400> 3220
Met Arg Phe His Ile Leu Leu Ile Val Leu Leu Arg Met Lys Asn
Gln Gln Gln Ile Leu Cys Trp Thr Cys Gly Leu Val Lys Leu Leu Phe
             20
Leu Val Leu Pro Val
         35
<210> 3221
<211> 36
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids
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<210> 3222 <211> 31 <212> PRT <213> Homo sapiens

Phe Leu Glu Leu Leu Val Gly Leu Tyr Phe Gly Val Val Phe Gly 20 25 30

<210> 3223 <211> 85 <212> PRT <213> Homo sapiens

Leu Gly Tyr Val Val Cys Val Arg Glu Trp Cys Ala Gly Ala Val Pro 20 25 30

Tyr Ala Pro Cys Val Leu Cys Val Ser Arg His Gly Ser Leu Arg Pro 35 40 45

Met Cys Ala Val Cys Val Leu Pro Val Tyr Val Ala Ser Ser Asp Ala 50 55 60

Asp Lys Val Gly Asn Asn Pro Cys Gln Ser Gly Leu Gly Pro Asp Phe 65 70 75 80

Val Leu Phe Leu Thr 85

<210> 3224 <211> 207 <212> PRT <213> Homo sapiens

Leu Thr Thr Val Thr Ser Thr Val Phe Leu Tyr Phe Glu Ser Val Arg

Thr Phe Val His Glu Ser Pro Ala Leu Ile Leu Leu Phe Ala Leu Gly 35 40 45

Ser Leu Gly Leu Ile Phe Ala Leu Ile Leu Asn Arg His Lys Tyr Pro 50 55 60

Leu Asn Leu Tyr Leu Leu Phe Gly Phe Thr Leu Leu Glu Ala Leu Thr 65 70 75 80

Val Ala Val Val Thr Phe Tyr Asp Val Tyr Ile Ile Leu Gln Ala 85 90 95

Phe Ile Leu Thr Thr Thr Val Phe Phe Gly Leu Thr Val Tyr Thr Leu 100 105 110

Gln Ser Lys Lys Asp Phe Ser Lys Phe Gly Ala Gly Leu Phe Ala Leu 115 120 125

Leu Trp Ile Leu Cys Leu Ser Gly Phe Leu Lys Phe Phe Phe Tyr Ser 130 135 140

Glu Ile Met Glu Leu Val Leu Ala Ala Ala Gly Ala Leu Leu Phe Cys 145 150 155 160

Gly Phe Ile Ile Tyr Asp Thr His Ser Leu Met His Lys Leu Ser Pro 165 170 175

Glu Glu Tyr Val Leu Ala Ala Ile Ser Leu Tyr Leu Asp Ile Ile Asn 180 185 190

Leu Phe Leu His Leu Leu Arg Phe Leu Glu Ala Val Asn Lys Lys 195 200 205

<210> 3225

<211> 33

<212> PRT

<213> Homo sapiens

<400> 3225

Met Arg Tyr Leu Ile Phe Leu Leu Leu His Leu Ser Phe Ser Trp Leu
1 10 15

Gln Lys Ile Met Ala Phe Thr Val Phe Leu Phe Ser Phe Met Ser Ser 20 25 30

Phe

<210> 3226

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<211> 34
<212> PRT
<213> Homo sapiens
<400> 3226
Met Trp Pro Ile Ala Ser Leu Thr Tyr Met Gly Lys Pro Leu Ala Leu
Cys Ser Pro Ala Phe Leu Leu Cys Leu Val His Ala Val Ser Ser Gln
Gln Pro
<210> 3227
<211> 31
<212> PRT
<213> Homo sapiens
<400> 3227
Met Lys Leu Phe Gln Tyr Ile Gln Tyr Thr Leu Ser Leu Met Leu Leu
Leu Leu Thr Val Ile Ser Phe Phe Phe Ser Phe Leu Tyr Leu His
                                 25
<210> 3228
<211> 31
<212> PRT
<213> Homo sapiens
<400> 3228
Met Lys Leu Phe Gln Tyr Ile Gln Tyr Thr Leu Ser Leu Met Leu Leu
Leu Leu Thr Val Ile Ser Phe Phe Phe Ser Phe Leu Tyr Leu His
             20
<210> 3229
<211> 33
<212> PRT
<213> Homo sapiens
<400> 3229
Met Tyr Val Val Thr Val Tyr Met Cys Met Ser Val Val Tyr Ala Cys
```

Val Ser Val Cys Leu Tyr Val Cys Thr Thr Lys Glu Ala Ala Glu Thr

Leu

20

<400> 3233

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<210> 3230
<211> 55
<212> PRT
<213> Homo sapiens
<400> 3230
Glu Ile Leu His Arg Phe Leu Val Leu Phe Cys Ser Phe Phe Val Phe
Cys Cys Phe Val Ile Tyr Leu Tyr Thr Tyr Lys Ile Leu Leu Lys Ile
Lys Lys Lys Lys Ser Arg Ser Arg Ile His Trp Ser Arg Phe Ser
Tyr Asn Val Leu Lys Thr Lys
<210> 3231
<211> 75
<212> PRT
<213> Homo sapiens
<400> 3231
Met Gly Ser Ser Gly Leu His Thr Ser Thr Ile Ala Cys Trp Val Asp
Leu Asp Val Cys Leu Leu Tyr Gly Asn Phe Gly Gly Lys Asn Pro Lys
His Lys Leu Trp Val Glu Ile Leu Thr Val Ser Leu Val Pro Trp Tyr
Ser Pro Cys Leu Ile Cys Thr Phe His Arg Gly Cys Phe Cys Ile Ala
Tyr Thr Ala Leu Ala Gln Glu Ile Val Ala Leu
 65
<210> 3232
<211> 6
<212> PRT
<213> Homo sapiens
<400> 3232
Leu Lys Gly Ile Tyr Leu
  1
 <210> 3233
 <211> 12
 <212> PRT
 <213> Homo sapiens
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His Glu Thr Ile Val Thr Trp Arg Pro Gln Leu Leu

```
DASCINCS COLS
```

il ala

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<210> 3234
<211> 59
<212> PRT
<213> Homo sapiens
<400> 3234
Met Ala Thr Leu Leu Leu Cys Pro His Val Ala Phe Pro Leu Tyr Val
Arg Ala Pro Ala Thr Ser Ile Leu Arg Gly His Gln Ser Tyr Trp Ile
Arg Val Pro Pro Gln Gln Leu His Val Asn Ile Ile Ser Leu Lys Thr
Leu Pro Pro Ala Gly His Gly Ser Ser Arg Leu
<210> 3235
<211> 24
<212> PRT
<213> Homo sapiens
<400> 3235
Met Phe Asp Leu Leu Phe Ile Ser Thr Phe Ile Leu Ile Phe Leu Ala
Ser Leu Asp Leu Glu Val Asn Tyr
             20
<210> 3236
<211> 38
<212> PRT
<213> Homo sapiens
<400> 3236
Met Val Phe Ile Leu Thr Ile Ser Tyr Leu Leu Lys Gly Val Met Val
Ile Thr Lys Ala Phe Arg Met Gln Phe Leu Ile Cys Cys Gly His Asp
             20
His Lys Lys Ile Ser Gln
```

<210> 3237

<211> 32

<212> PRT

<213> Homo sapiens

35

<400> 3237

Met Ser Met Glu Cys Phe Ser Ile Cys Tyr Val Ile Ser Asp Phe Phe 1 5 10 15

Val Gln Cys Phe Val Thr Phe Ile Val Glu Ile Leu Tyr Leu Pro Gly 20 25 30

<210> 3238

<211> 79

<212> PRT

<213> Homo sapiens

<400> 3238

Met Asp Asp Phe Ile Ser Ile Ser Leu Leu Ser Leu Ala Met Leu Val 1 5 10 15

Gly Cys Tyr Val Ala Gly Ile Ile Pro Leu Ala Val Asn Phe Ser Glu 20 25 30

Glu Arg Leu Lys Leu Val Thr Val Leu Gly Ala Gly Leu Leu Cys Gly 35 40 45

Leu Leu Trp Gln Ser Ser Cys Leu Lys Glu Tyr Met Pro Phe Met Lys
50 60

Ile Phe Leu Arg Glu Asn Thr Thr Lys Gln Val Lys His Ile Met 65 70 75

<210> 3239

<211> 55

<212> PRT

<213> Homo sapiens

<400> 3239

Met Thr Arg Leu Ser Phe Leu Gly Leu Phe Leu Leu Arg Pro Ala Pro
1 5 10 15

Ser Trp Ala His Leu Arg Phe Thr Glu Val Ser Gly Gly Pro Lys Ser 20 25 30

Leu Leu Val Phe Asn Phe Phe Leu Thr Ile His Phe Cys Gly Gln Phe 35 40 45

Gln Gln His Cys Pro Tyr Phe 50 55

<210> 3240

<211> 4

<212> PRT

<213> Homo sapiens

<400> 3240

Met Gln Ser Thr

```
<210> 3241
<211> 30
<212> PRT
<213> Homo sapiens
<400> 3241
Met Tyr Ile Arg Leu Phe Leu Ile Phe Cys Tyr Leu Tyr Ala His Cys
                                      10
Ser Glu His Ser Leu Tyr Ile Cys Pro Cys Ser Val Val Ser
<210> 3242
<211> 20
<212> PRT
<213> Homo sapiens
<400> 3242
Met Phe Leu Ile Phe Tyr Leu Ala Lys Leu Asp Asn Leu Ser Leu Gly
Lys Ile Lys Asn
<210> 3243
<211> 59
<212> PRT
<213> Homo sapiens
<400> 3243
Ser Thr Leu Phe Ser Ile Leu Leu Ser Arg Leu Trp Gly Ser Phe Cys
Gln Gly Gln Ala Thr Arg Lys Val Glu Val Glu Ile Thr Trp Tyr Val
Ser Leu Trp Val Pro Gln Leu Glu Leu Pro Gln Leu Arg Lys Lys Met
Arg His Asn Asp Leu Glu Cys Asn Trp Ser Lys
    50
<210> 3244
<211> 30
<212> PRT
<213> Homo sapiens
<400> 3244
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Met Leu Ala Leu Asn Ile Phe Phe Leu Ser Leu Thr Ser Ala Ile Asn

Ser Thr Ile Gly Leu Gln Ile Gln Phe Thr Leu Gly Leu Asn 20 25 30

<210> 3245 <211> 34

<212> PRT

<213> Homo sapiens

<400> 3245

Met Glu Ser Ile Tyr Cys Arg Thr Thr Leu Val Leu Cys Leu Leu Ser 1 5 10 15

Leu Pro Ser Ala Leu Gln Leu Ser Pro Ser Leu Ala Ala Ser Ser Leu 20 25 30

Cys Ser

<210> 3246

<211> 44

<212> PRT

<213> Homo sapiens

<400> 3246

Met Thr Arg His Leu Leu Ile Ile Phe His Asp Cys Phe Leu Phe Ser 1 5 10 15

His Cys Val Gly Phe Val Asn Leu Tyr Ile Thr Gly Asn Lys Ile Leu 20 25 30

Cys Lys Ile Tyr Trp Gly Lys Ser Ile Trp Ser Ala 35

<210> 3247

<211> 16

<212> PRT

<213> Homo sapiens

<400> 3247

Met Leu Gln Arg Ile Val Leu Ala Cys Cys Trp Pro Ala Ala Ser Gln 1 5 10 15

<210> 3248

<211> 68

<212> PRT

<213> Homo sapiens

<400> 3248

Met Asp Phe His Phe Leu Val Val Phe Phe Phe Ser Tyr His Phe Pro

1 5 10 15

Phe Leu Phe Leu His Val Gly Asn Leu Ser Ser Ala Ala Phe Leu Cys 20 25 30

Gln Leu Lys Gly Lys Ser His Leu Asn Ala His Gln Glu Asn Thr Leu 35 40 45

Trp Ser Ala Ile Gln Ser Phe Ile Met Tyr Pro Leu Thr Val Met Pro 50 55 60

Ala Arg Arg Asp

<210> 3249

<211> 38

<212> PRT

<213> Homo sapiens

<400> 3249

Met Lys Lys Met Ser Gln Arg Ser Gly Thr Leu Trp Leu Ala Leu Leu 1 5 10 15

Leu His Ser Val Val Thr Thr Gly Val Ile Gly Asp Ile Met Trp Ala 20 25 30

Lys Asn Ile Ser Gly Leu 35

<210> 3250

<211> 29

<212> PRT

<213> Homo sapiens

<400> 3250

Met Leu Ile Trp Gly Ser His Leu Leu Pro Leu Gly Gln Ser Thr Ile
1 5 10 15

Lys Leu Leu Tyr Leu Pro Trp Leu Leu Asp His Val Cys 20 25

<210> 3251

<211> 10

<212> PRT

<213> Homo sapiens

<400> 3251

Met Leu Asn Cys Asp His Phe Leu Ala Leu 1 5 10

<210> 3252

<211> 31

<212> PRT

<213> Homo sapiens

<400> 3252 Met Gly Ile Asn Thr Arg Glu Leu Phe Leu Asn Phe Thr Ile Val Leu 1 5 10 15

Ile Thr Val Ile Leu Met Trp Leu Leu Val Arg Ser Tyr Gln Tyr 20 25 30

<210> 3253

<211> 36

<212> PRT

<213> Homo sapiens

<400> 3253

Met Lys Thr Thr Ser Phe Tyr Cys Ile Phe Thr Arg Val His Ser Gly 1 5 10 15

Arg Met Leu Ile Ala Gly Ser Val Gln Ala Thr Asp Met Leu Leu Leu 20 25 30

Val Ile Gln Tyr 35

<210> 3254

<211> 42

<212> PRT

<213> Homo sapiens

<400> 3254

Met Val Met Phe Val Leu Cys Leu Asn Tyr Trp Asp Leu Val Leu Thr

Ile Ser Leu Lys Lys Thr Ala Phe Cys His Phe Lys Leu Thr Thr Ser 20 25 30

Gly Arg Trp Arg Ile Arg Ser Ala Ser Gln
35 40

<210> 3255

<211> 23

<212> PRT

<213> Homo sapiens

<400> 3255

Leu Pro Leu Ser Leu Phe Ser Val Leu Leu Thr Leu Leu Phe Leu Val 1 5 10 15

Val Phe Lys Lys Ile Ala Thr 20

<210> 3256

<211> 14

<212> PRT

<213> Homo sapiens

<400> 3256

Met Leu Leu Ile Trp Val Phe Leu Pro Val Leu Thr Thr Asp 1 5 10

<210> 3257

<211> 118

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (109)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (115)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3257

Met Ala His Gly Leu Tyr Ser Ile Leu Ile Gly Leu Gly Leu Leu Thr 1 5 10 15

Gly Leu Leu Leu His Asn Trp Ser Pro Cys Phe Gln Phe Leu Pro 20 25 30

Ser Ile Ser Ser Asn Leu Thr Pro Lys Val Ile Leu Ser Ser Leu Lys 35 40 45

Lys Lys Lys Lys Asn Ser Arg Gly Gly Pro Val Pro Asn Ser Pro Tyr 50 55 60

Ser Glu Ser Tyr Tyr Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp 65 70 75 80

Trp Glu Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Ala Ala His Pro 85 90 95

Pro Phe Ala Ser Trp Arg Asn Ser Glu Glu Ala Arg Xaa Asp Arg Pro 100 105 110

Ser Gln Xaa Leu Arg Thr 115

<210> 3258

<211> 35

<212> PRT

<213> Homo sapiens

<400> 3258

Pro Leu Glu Leu Thr Ser Trp Thr Leu Leu Tyr Cys Leu Asn Cys
1 5 10 15

Ser Ala Leu Tyr Phe Ala Ser Val Cys Glu Phe Cys Cys Phe Trp Gly 20 25 30

Ile Ser Leu

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<210> 3259
<211> 1
<212> PRT
<213> Homo sapiens
<400> 3259
Met
 1
<210> 3260
<211> 23
<212> PRT
<213> Homo sapiens
<400> 3260
Met Ile Leu Leu Ile Ile Pro Ser Phe Arg Leu Ser Pro Phe Ser Ser
                                     10
Ser Thr Ile Lys Glu Pro Leu
             20
<210> 3261
<211> 113
<212> PRT
<213> Homo sapiens
<400> 3261
Met Ser Phe Cys Phe Gln Leu Leu Leu Gly Val Ala Met Ser Gln Pro
Gln Ser Leu Ile Ser Pro Val Ser Ile Thr Asn Cys Leu His Leu Lys
Ala Phe Leu Tyr Leu Leu Ile Phe Pro Gln Ala Phe Pro Phe Leu Ser
                              40
Cys Ile Phe Pro Leu Phe Trp Gln Thr Cys Met Gly Lys Asp Val Thr
Leu His Val Ser Ala Ser Asn Pro Ala Met Leu Leu Tyr Gln Lys Phe
                     70
 65
Gly Phe Lys Thr Glu Glu Tyr Val Leu Asp Phe Tyr Asp Lys Tyr Tyr
Pro Leu Glu Ser Thr Glu Cys Lys His Ala Phe Phe Leu Arg Leu Arg
            100
                                105
Arg
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<400> 3266

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<210> 3262
<211> 42
<212> PRT
<213> Homo sapiens
<400> 3262
Met Ser Asn Tyr Thr Ile Leu Gly Gln Tyr Cys Val Phe Leu Val Leu
Cys Phe Leu Arg Ser Pro Thr Tyr Trp Asn Phe Asp Tyr Leu Asp Ile
Phe Val Phe Lys Arg Gly Glu Phe Ala
<210> 3263
<211> 10
<212> PRT
<213> Homo sapiens
<400> 3263
Glu Phe Thr Phe Pro Cys Ala Gly Leu Thr
<210> 3264
<211> 23
<212> PRT
<213> Homo sapiens
<400> 3264
Met Ser Val Leu Leu Ser Ser Ser Cys Gly Ala Ala Phe Ala Val
Leu Cys Pro Pro His Cys Glu
             20
<210> 3265
<211> 13
<212> PRT
<213> Homo sapiens
<400> 3265
Met Gly Cys Phe Gly Leu Trp Ala Pro Ser Phe Pro Trp
                  5
<210> 3266
<211> 86
<212> PRT
<213> Homo sapiens
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Met Leu Met Leu Leu Thr Leu Phe Ser Ser Leu Gly Met Phe Gly Thr
1 5 10 15

Gly Gly Leu Gly Gly Arg Val Phe Cys Pro His Thr His Thr Asp Ser 20 25 30

Glu Tyr Leu Ile His Val Val Asp Ser Pro Ile Thr Val Gln Trp Gly
35 40 45

Arg Gly Pro Arg Phe Phe Pro Phe Leu Ser Pro Phe Ile Ser Cys Gly 50 55 60

Gln Arg Leu Gln Pro Thr Ile Ala Leu Arg Val Pro Ser Ser Ala Phe 65 70 75 80

Ser Lys Tyr Gly Leu Thr 85

<210> 3267

<211> 35

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3267

Met Phe Val Tyr Cys Pro His Leu Xaa Leu Ile Tyr Ser Gly Ile Leu 1 5 10 15

Leu Leu Glu His Ile Val Tyr Ser Cys Asn Asn Tyr Phe Asn Ile
20 25 30

Phe Ala Tyr

<210> 3268

<211> 17

<212> PRT

<213> Homo sapiens

<400> 3268

Arg Gly Arg Pro Gly Ala Leu Pro Ser Cys Leu Phe Ser Val Phe Pro 1 5 10 15

Leu

<210> 3269

<211> 25

<212> PRT

<213> Homo sapiens

<400> 3269
Met Gln Val Leu Leu Leu Val Gly Phe Phe Gln Met Glu Leu Ser
1 5 10 15

Leu Phe Ile Leu Lys Asn Met Lys Ile 20 25

<210> 3270

<211> 18

<212> PRT

<213> Homo sapiens

<400> 3270

Met Thr Asn Leu Leu Phe Ala Tyr Ser Ser Ile Leu Asn Lys Ser Leu 1 5 10 15

Lys Leu

<210> 3271

<211> 118

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3271

Met Gly Leu Val Ile Cys Ser Phe Leu Ala Leu Lys Ile Val Val Ser 1 5 10 15

Lys Arg Asp His Gly Arg Asn His Cys Asn Gly Ser Asn Ser Asn Thr 20 25 30

Cys Xaa Leu Tyr Cys Ala Leu Gly Leu Pro Gly Val Ser Lys Tyr Ile 35 40 45

Ser Ile Phe Xaa Met Cys Arg Thr Arg Tyr Leu Gly Thr Cys His Thr 50 60

Pro Leu Ser Arg Tyr Val Leu Ala Ser Leu Glu Leu Lys Gly Leu Glu 65 70 75 80

Leu Arg Thr Cys Ser Leu Phe Phe Ile His Met Ser Leu Val Gly Leu 85 90 95

His Pro Asp His Thr Met Thr Ser Tyr Arg Ala Arg Glu Asn Asn Ile 100 105 110

Ile Ile Ser Ser Phe Ala

ZIS HOMO Dap

Val Phe Ser Val Thr Phe Ser Val Ile Phe Ala Tyr Val Ala Asp Val 20 25 30

Thr Gln Glu His Glu Arg Ser Thr Ala Tyr Gly Trp Val Ser Ala Thr 35 40 45

Phe Ala Ala Ser Leu Val Ser Ser Pro Ala Ile Gly Ala Tyr Leu Ser 50 55 60

Ala Ser Tyr Gly Asp Ser Leu Val Val Leu Val Ala Thr Val Val Ala 65 70 75 80

Leu Leu Asp Ile Cys Phe Ile Leu Val Ala Val Pro Glu Ser Leu Pro 85 90 95

Glu Lys Met Arg Pro Val Ser Trp Gly Ala Gln Ile Ser Trp Lys Gln
100 105 110

Ala Asp Pro Phe Ala Ser Leu Lys Lys Val Gly Lys Asp Ser Thr Val 115 120 125

Leu Leu Ile Cys Ile Thr Val Phe Leu Ser Tyr Leu Pro Glu Ala Gly 130 135 140

Gln Tyr Ser Ser Phe Phe Leu Tyr Leu Arg Gln Val Ile Gly Phe Gly 145 150 155 160

Ser Val Lys Ile Ala Ala Phe Ile Ala Met Val Gly Ile Leu Ser Ile 165 170 175

Val Ala Gln Thr Ala Phe Leu Ser Ile Leu Met Arg Ser Leu Gly Asn 180 185 190

Lys Asn Thr Val Leu Gly Leu Gly Phe Gln Met Leu Gln Leu Ala 195 200 205

Trp Tyr Gly Phe Gly Ser Gln Ala Trp Met Met Trp Ala Ala Gly Thr

	210					215					220				
Val 225	Ala	Ala	Met	Ser	Ser 230	Ile	Thr	Phe	Pro	Ala 235	Ile	Ser	Ala	Leu	Val 240
Ser	Arg	Asn	Ala	Glu 245	Ser	Asp	Gln	Gln	Gly 250	Val	Ala	Gln	Gly	Ile 255	Ile
Thr	Gly	Ile	Arg 260	Gly	Leu	Cys	Asn	Gly 265	Leu	Gly	Pro	Ala	Leu 270	Tyr	Gly
Phe	Ile	Phe 275	Tyr	Met	Phe	His	Val 280	Glu	Leu	Thr	Glu	Leu 285	Gly	Pro	Lys
Leu	Asn 290	Ser	Asn	Asn	Val	Pro 295	Leu	Gln	Gly	Ala	Val 300	Ile	Pro	Gly	Pro
Pro 305	Phe	Leu	Phe	Gly	Ala 310	Суз	Ile	Val	Leu	Met 315	Ser	Phe	Leu	Val	Ala 320
Leu	Phe	Ile	Pro	Glu 325	Tyr	Ser	Lys	Ala	Ser 330	Gly	Val	Gln	Lys	His 335	Ser
Asn	Ser	Ser	Ser 340	Gly	Ser	Leu	Thr	Asn 345	Thr	Pro	Glu	Arg	Gly 350	Ser	Asp
Glu	Asp	Ile 355	Glu	Pro	Leu	Leu	Gln 360	Asp	Ser	Ser	Ile	Trp 365	Glu	Leu	Ser
Ser	Phe 370	Glu	Glu	Pro	Gly	Asn 375	Gln	Cys	Thr	Glu	Leu 380				

<210> 3274 <211> 11 <212> PRT <213> Homo sapiens

<400> 3274
Met Arg Trp Asn Leu Leu Leu Val Lys Leu Leu
1 5 10

<210> 3275 <211> 31 <212> PRT <213> Homo sapiens

<400> 3275 Met Phe Val Phe Thr Ile Tyr Cys Ile Val Gly Leu Phe Thr Phe Gly 1 5 10 15

His Ser Ser Met Lys Cys Lys Leu Phe Gln Glu Ser His Glu Lys $20 \\ \hspace{1.5cm} 25 \\ \hspace{1.5cm} 30$

<210> 3276 <211> 28 <212> PRT <213> Homo sapiens

<400> 3276

Met Ala Phe Ser Phe Pro Ala Ser Ala Gly Val Val Arg Val Gly Ala 1 5 10 15

Arg Arg Ala Leu Leu Phe Pro Phe Leu Leu Pro Gly 20 25

<210> 3277

<211> 105

<212> PRT

<213> Homo sapiens

<400> 3277

Met Ala His Lys Ile Gly Pro Pro Met Leu Phe Phe Phe Leu Ser Leu
1 5 10 15

Phe Asn Tyr Leu Leu Arg Leu Ser Lys Ala Lys Gly Asn Cys Glu Ile 20 25 30

Lys Ser Val Lys Tyr Asn Asn Ile Phe Lys Arg Lys Trp Ile Pro Leu 35 40 45

Phe Leu Phe Ala Thr Glu Lys Ala Pro Arg Arg His Arg Leu Cys Arg 50 55 60

Ile Ser Lys Gln Thr Met Met Glu Trp Arg Pro Val Gln Pro Phe Lys 65 70 75 80

Glu Arg Gln Val Glu Gln Pro Gly Glu Arg Pro Gly Gly Glu Glu Ser 85 90 95

Glu Thr Pro Glu Ser Lys Ala Val Phe 100 105

<210> 3278

<211> 22

<212> PRT

<213> Homo sapiens

<400> 3278

Glu Val Gln Tyr Val Gln Ile Phe His Ile Phe Leu Leu Leu Ser Leu 1 5 10 15

Tyr Leu Phe Ser Leu Phe 20

<210> 3279

<211> 39

<212> PRT

<213> Homo sapiens

<400> 3279

Met Thr Ile Ile Met Cys Pro Leu Ala Pro Leu Ile Ser Gly Val Cys
1 5 10 15

Ala Ile Pro Leu Ser Thr Ser Leu Ile Phe Leu Thr Pro Ser Leu Thr 20 25 30

Lys Ser Leu Gln Lys Pro Leu 35

<210> 3280

<211> 28

<212> PRT

<213> Homo sapiens

<400> 3280

Met Arg Ser Leu Ile Cys Pro Asn Pro His Gln Arg Leu Leu Phe Ser

Val Leu Leu Ile Ile Thr Ile Leu Met Gly Met Asn 20 25

<210> 3281

<211> 36

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3281

Met Leu Arg Lys Val Ile Leu Cys Met Leu Pro Phe Cys Phe Ile Leu 1 5 10 15

Leu Leu Lys Gln Asn Cys Gly Val Xaa Leu Cys Val Cys Ala Xaa Pro 20 25 30

Arg Cys Pro Ser 35

<210> 3282

<211> 22

<212> PRT

<213> Homo sapiens

<400> 3282

Met Asn Val Phe Ser Lys Asn Val Lys Cys Ile Tyr Phe Leu Tyr Leu

1 5 10 15

Tyr Ser Cys Phe Ile Phe 20

<210> 3283

<211> 32

<212> PRT

<213> Homo sapiens

<400> 3283

Met Ile Leu Phe Leu Leu Leu Trp Ser Cys Ile Ser Ser Val Arg 5

Ser His Gly Tyr Leu Gln Ile Lys Ala Pro Ile Asn Gln Met His Leu 20

<210> 3284

<211> 38

<212> PRT

<213> Homo sapiens

<400> 3284

Met Pro Ser Pro Glu Lys Asn Phe Tyr His Leu Leu Pro Phe Leu

Leu Ala Leu Leu Lys Ala Leu Lys Cys Asp Ser Ser Ser Ile Ala Ser 20

Thr Ser Met Tyr Asn Phe 35

<210> 3285

<211> 21

<212> PRT

<213> Homo sapiens

Met Ile Leu Phe Phe His Phe Leu Ser Thr Tyr Val Glu Ala Ser Leu - 5

Pro Lys His Asn Leu 20

<210> 3286

<211> 71

<212> PRT

<213> Homo sapiens

Met Ala Ser Trp Glu Thr Phe Lys Arg Pro Ser Leu Ile Leu Ser Ala 10 5

Tyr Ser Asn Ser Ile Thr Gly Ile Thr Asp Asp Val Ser Ile Gly Leu 20 25 30

Ala Ser Thr Ser Thr Val Thr Arg Cys Leu Leu Ser Pro Lys Val Leu 35 40 45

Ser Lys Val Ser Val Ala Arg Thr Glu Phe Arg Met Val Ser Arg Tyr 50 55 60

Ala Thr Trp Arg Gly Pro Arg
65 70

<210> 3287

<211> 145

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3287

Gln Val Val Gly Met Thr Val Glu His Val Glu Cys Gln Asp Ala Gly
1 5 10 15

Val Arg Glu Ala Pro Gly Pro Leu Glu Gly Ala Gly Glu Ala Gly Gly
20 25 30

Glu Glu Ala Asp Glu Lys Pro Pro Gln Phe Val Cys Arg Glu Cys Lys 35 40 45

Glu Thr Phe Ser Thr Met Thr Leu Leu Arg Arg His Glu Arg Ser His 50 55 60

Pro Glu Leu Arg Pro Phe Pro Cys Thr Gln Cys Gly Lys Ser Phe Ser 65 70 75 80

Asp Arg Ala Gly Xaa Arg Lys His Ser Arg Thr His Ser Ser Val Arg 85 90 95

Pro Tyr Thr Cys Pro His Cys Pro Lys Ala Phe Leu Ser Ala Ser Asp 100 105 110

Leu Arg Lys His Glu Arg Thr His Pro Val Pro Met Gly Thr Pro Thr 115 120 125

Pro Leu Glu Pro Leu Val Ala Leu Leu Gly Met Pro Glu Glu Gly Pro 130 135 140

Ala 145

<210> 3288

<211> 32

<212> PRT

<213> Homo sapiens

<400> 3288

Met Asn Leu Pro Ser Val Asn Leu Gly Phe Arg Cys Phe Tyr Leu Phe 1 5 10 15

Ile Asp Phe Cys Phe Pro Ser Ser Ile Phe Phe Cys Thr Glu Phe Thr 20 25 30

<210> 3289

<211> 117

<212> PRT

<213> Homo sapiens

<400> 3289

Met Gly Leu Glu Ala Thr Ile Ala Met Leu Leu Leu Ser Gly Ala Leu 1 5 10 15

Val Ser Gly Pro Tyr Thr Leu Ile Thr Thr Ala Val Ser Ala Asp Leu 20 25 30

Gly Thr His Lys Ser Leu Lys Gly Asn Ala His Ala Leu Ser Thr Val

Thr Ala Ile Ile Asp Gly Thr Gly Ser Val Gly Ala Ala Leu Gly Pro
50 55 60

Leu Leu Ala Gly Leu Leu Ser Pro Ser Gly Trp Ser Asn Val Phe Tyr 65 70 75 80

Met Leu Met Phe Ala Asp Ala Cys Ala Leu Leu Phe Leu Ile Arg Leu 85 90 95

Ile His Lys Glu Leu Ser Cys Pro Gly Ser Ala Thr Gly Asp Gln Val

Pro Phe Lys Glu Gln 115

<210> 3290

<211> 30

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3290

Met Arg Leu Phe Ser Gln Met Leu Lys Ser Trp Met Ala Leu Phe Met 1 5 10 15

Arg Asn Val Trp Leu Glu Met Thr Ile Ala Thr Xaa Ile Gln

<400> 3294

5

```
<210> 3291
<211> 50
<212> PRT
<213> Homo sapiens
<400> 3291
Met Phe Ser Leu Ile Ile Leu Leu Val Lys Tyr Asp Ile Pro Lys Glu
Asn His Phe Asn Leu Ser Ser Leu Leu Thr Lys Asn Thr Trp Leu Lys
Lys Tyr Ser Leu His Leu Tyr Glu His Leu Pro Tyr Asn Ile Pro Ala
Ile Ile
    50
<210> 3292
<211> 14
<212> PRT
<213> Homo sapiens
<400> 3292
Met Lys Asp Gly Ser Arg Ser Leu Pro Gln Leu Ser Ile Cys
                5
<210> 3293
<211> 37
<212> PRT
<213> Homo sapiens
Met Pro Val Val Phe Val Leu Phe Ser Leu Phe Leu Thr Cys Val His
Asp Ser Phe Asp Ser Ala Ser Lys Ser Lys Ser Cys Val Val Thr Gly
Ala Phe Ile Tyr Leu
         35
<210> 3294
<211> 56
<212> PRT
<213> Homo sapiens
```

10

Met Leu His Leu Thr Pro Leu Lys Leu Pro Phe Cys Cys Trp Glu Glu

Ser Gly Ala Ser Leu Ser Ser Cys Thr Ala Ile Pro Met Leu Val Gly 20 25 30

Ala Ala Leu Pro Leu Val Pro Gly Val Ala Ser Ala Gln Ser Gln Arg 35 40 45

Ala Gly Ser Arg Val Leu His Arg
50 55

<210> 3295

<211> 90

<212> PRT

<213> Homo sapiens

<400> 3295

Met Thr Ser Pro His Phe Gln Leu Ser Ser Ser Leu Phe Met Trp Leu
1 5 10 15

Cys Trp Gly Trp Met Ala Glu Val Gly Trp Thr Asp Gly Tyr Lys Arg
20 25 30

Ile Cys Glu Ser Ile Glu Gly Val Thr Lys Ser Leu Arg Asp Lys Arg 35 40 45

Gly Asn Arg Thr Phe Gln Lys Val Val Leu Leu Ser Gln Thr Leu 50 55 60

Tyr Ile His Val Tyr Phe Cys Lys Leu Leu Ser Pro Phe Gly Gln Thr 65 70 75 80

Thr Ile Thr Arg Val Lys Ser Tyr Gln Glu 85 90

<210> 3296

<211> 37

<212> PRT

<213> Homo sapiens

<400> 3296

Met Arg Lys Gly Ile His Tyr Ile Thr Phe Leu Val Ser Leu Cys Ser 1 5 10 15

Leu Phe His Phe Tyr Gln Thr Glu Gly Val Asn Phe Leu Thr Arg Asn 20 25 30

Leu Lys Asp Arg Asn 35

<210> 3297

<211> 6

<212> PRT

<213> Homo sapiens

<400> 3297

Met Cys His Val Thr Thr

5

<210> 3298 <211> 32 <212> PRT

1

<213> Homo sapiens

<400> 3298

Met Ser Asp Pro Leu Leu Arg Ile Thr Leu Gly Leu Trp Gly Met Trp

Leu Phe Cys Gly Arg Gln Ala His Leu Gly Phe Leu Trp Arg Gly Arg 25

<210> 3299 <211> 13 <212> PRT <213> Homo sapiens

<400> 3299

Met Ala Ser Leu Gly Gln Ile Leu Phe Trp Ser Ile Ile

<210> 3300 <211> 35 <212> PRT

<213> Homo sapiens

<400> 3300

Met Val Cys Leu Pro Val His Ser Arg Ala Leu Leu Thr Gly Phe Leu

Phe Phe Lys Met Leu Cys Cys Lys Ile Leu Ser Tyr Leu Leu Phe Pro

Gly Thr Val 35

<210> 3301

<211> 62 <212> PRT

<213> Homo sapiens

Met Gly Leu Ser Ala Ala Ser Gln Ile Cys Gly Leu Cys Leu Leu Trp 5

Leu Ser Pro His Phe Ala Ser Gln Ile Cys Pro Pro Val His Ile Leu 25 20

Pro Thr Ser Asn Pro Gly Ser Val Ser Ala Ser Gln Arg Thr Trp Thr 35 40 45

Lys Ala Leu Ala Val Ser Gly Leu Val Asp Pro Ser Thr Ser 50 55 60

<210> 3302

<211> 28

<212> PRT

<213> Homo sapiens

<400> 3302

Met Thr Phe Phe Leu Leu Trp Phe Ile Cys Ile Leu Leu Val Leu Phe
1 10 15

Gln Lys Asn Ser Ile Glu Met Arg His Arg Tyr Gln 20 25

<210> 3303

<211> 74

<212> PRT

<213> Homo sapiens

<400> 3303

Met Leu Tyr Arg Gly Ser Trp Leu Leu Gly Leu Ser Phe Ala Ser Thr 1 5 10 15

Trp Leu His Val Ala Gly Thr Leu Val Pro Arg Glu Arg Thr Arg Ala 20 25 30

Val Arg Pro Ala Asp Gly His Arg Gly Ala Thr Ala Arg Leu Ala Leu
35 40 45

Val Pro Arg Glu Arg Lys Ser Glu Ala Ala Asp Pro Glu Gly Lys Ala 50 55 60

Glu Ser Ala Met Gln Leu Gln Met Ser Gly 65 70

<210> 3304

<211> 18

<212> PRT

<213> Homo sapiens

<400> 3304

Met Cys Ile Gln Leu Leu Leu Leu Leu Leu Val Trp Gly Arg Gly Leu

1 5 10 15

Glu Ser

<210> 3305

<211> 30

<212> PRT

<213> Homo sapiens

```
<212> PRT
<213> Homo sapiens
<400> 3305
Met Leu Ile Ser Leu Ser Leu Ser Leu Leu Thr Lys Val Tyr
Gln Arg Pro Gln Ala Gln Gly Leu Ser Gln Val Lys Ala Gly
<210> 3306
<211> 26
<212> PRT
<213> Homo sapiens
<400> 3306
Asn Phe Lys His Gln Phe Thr Met Leu Ile Lys Ser Thr Phe Ile Phe
Ser Ser Glu Leu Asn Asn Pro Ile Asn Lys
             20
<210> 3307
<211> 20
<212> PRT
<213> Homo sapiens
<400> 3307
Met Tyr Lys Ser Cys Gly Phe Leu Cys Phe Tyr Asp Lys Ser Gly Ile
Val Phe Leu Asn
<210> 3308
<211> 34
<212> PRT
<213> Homo sapiens
<400> 3308
Met Tyr Trp Trp Pro Phe Ile Phe Pro Ile Phe Leu Ala Ala Thr Glu
Ile Cys Pro Ser Phe Ser Gly Asp Asn Phe Ser Val Phe Ser Lys Ser
                                 25
             20
Ser Ile
<210> 3309
<211> 16
```

```
<210> 3310
<211> 27
<212> PRT
<213> Homo sapiens
<400> 3310
Met Ala Thr Leu Thr Phe Ser Leu Arg Lys Pro Leu Gln Arg Ser Leu
                                     10
Ile Arg Pro Ser Arg Leu Pro Leu Cys Cys Phe
             20
<210> 3311
<211> 68
<212> PRT
<213> Homo sapiens
<400> 3311
Met Ser Cys Tyr Phe Leu Leu Cys Leu Ser Leu Leu Gln Pro His Trp
Pro Ser Tyr Cys Ser Ile Asn Met Pro Gly Thr Phe Leu Pro Gln Gly
Leu Cys Thr Ser His Ala Phe Cys Ser Ser Arg Phe Leu Gln Ser Ser
Phe Pro Thr Ser Phe Met Ser Leu Leu Val His Leu Leu Met Arg Leu
     50
                         55
Ser Tyr His Val
 65
<210> 3312
<211> 12
<212> PRT
<213> Homo sapiens
<400> 3312
Met Trp Arg His Thr Glu Leu Pro Pro Val Tyr Val
                                     10
```

<210> 3313 <211> 44

<212> PRT

```
<213> Homo sapiens
<400> 3313
Met Ile Phe Pro Leu Gln Glu Phe Ser Leu Phe Gly Gln Trp Trp Leu
Gln Val Phe Leu Glu Gly Ile Ile Phe Ile Pro Thr Ile Leu Leu Tyr
Val His Thr Cys Val Pro Ser Asn Ser His Ser Ile
<210> 3314
<211> 6
<212> PRT
<213> Homo sapiens
<400> 3314
Glu Ile Pro Tyr Lys Glu
           5
<210> 3315
<211> 26
<212> PRT
<213> Homo sapiens
<400> 3315
Met Glu Pro Gly Phe Asp Leu Ser His Ser Cys Phe Gly Val Cys Pro
Leu Asn Thr Leu Tyr Gly Val Ser Asn Leu
             20
<210> 3316
<211> 30
<212> PRT
<213> Homo sapiens
<400> 3316
Met Gly Asn Leu Phe Phe Leu Ala Leu Leu Val Asn Leu Trp Val Tyr
Pro Val Ala Thr Leu Arg Ile Ser Ile Ile Asn Lys Thr Gln
                                 25
             20
<210> 3317
<211> 5
<212> PRT
<213> Homo sapiens
<400> 3317
Met Pro Lys Ile Leu
```

```
<210> 3318
<211> 5
<212> PRT
<213> Homo sapiens
<400> 3318
Met Pro Lys Ile Leu
 1
<210> 3319
<211> 6
<212> PRT
<213> Homo sapiens
<400> 3319
Met Phe Gln Gly Gln Trp
<210> 3320
<211> 31
<212> PRT
<213> Homo sapiens
<400> 3320
Met Thr Phe Cys Phe Cys Ile Gly Phe Thr Val Ile Gln Phe Ser Ser
Leu Ile Ser Ser Lys Thr Lys Ser Glu Cys Thr Arg Phe Phe Arg
<210> 3321
<211> 109
<212> PRT
<213> Homo sapiens
<400> 3321
Met Val Phe Leu Pro Ala His Ser Gln Pro Phe Leu Phe Pro Phe Leu
                   5
                                      10
Phe Phe Phe Ser Pro His Thr Phe Leu Gly Leu Pro Pro Trp Lys Glu
                                  25
Glu Gly Leu Thr Trp Val Leu Ser Ser Pro Gln Val Arg Arg Val Thr
                                                   45
         35
                              40
Arg Ala Pro Ser Leu Trp Thr Trp Ala Leu Pro Glu Pro Leu Pro Gln
                          55
Leu Pro Gln Leu Arg Pro Ala Gly Pro Gly His Gly Leu Arg Lys Ser
                                          75
 65
                      70
Pro Ala Pro Asn Pro Gly Arg Asn Trp Pro Leu Leu Gly Ser Leu Phe
```

jad.

85 90 95

Asp Phe Phe Arg Lys Met Ile Ser Ile Ser Phe Gln Pro $100 \hspace{1cm} 105 \hspace{1cm}$

<210> 3322

<211> 19

<212> PRT

<213> Homo sapiens

<400> 3322

Met Leu Glu Tyr Gly Leu Leu Leu Val Ile Leu Val Leu Phe Pro 1 5 10 15

Ser Phe Pro

<210> 3323

<211> 26

<212> PRT

<213> Homo sapiens

<400> 3323

Met His Pro Asp Leu Trp Pro Asp Cys Gly Leu Trp Leu Pro Gln Ala 1 5 10 15

Phe Ser Ser Leu His Trp Val Phe Leu His 20 25

<210> 3324

<211> 36

<212> PRT

<213> Homo sapiens

<400> 3324

Met Ile Arg Tyr Trp Gly Phe Gly Gly Thr Gln Thr Leu Ala Ile Leu 1 5 10 15

Cys Val Pro Leu Asp Gln Ser Pro Lys Arg Arg Gly Ala Gly Arg Lys 20 25 30

Glu Trp Gly Ser 35

<210> 3325

<211> 63

<212> PRT

<213> Homo sapiens

<400> 3325

Met Phe Tyr Ile Leu Phe Ile Cys Leu Gly Ser Arg Val Leu Asn Leu 1 5 10 15

```
Glu Arg Ser Thr Ser Ile Glu Thr Tyr Gly Ser Cys Ser Leu Glu Ser 20 25 30
```

Gln Trp Arg Leu Ile Ala Val Leu His Met Asn Ser Asn Leu Thr Leu $35 \hspace{1cm} 40 \hspace{1cm} 45$

Asn His Gln Gln Thr Leu Ser Phe His Gln Asp Val Asp Lys Glu
50 55 60

<212> PRT <213> Homo sapiens

<400> 3327

Met Lys Leu Glu Ala Phe Ile Asp Phe Cys Cys Phe Leu Val Val Leu 1 5 10 15

Thr Trp Ile Gln Val Val Leu Ile His Leu Phe Cys Leu Lys 20 25 30

```
<210> 3328

<211> 10

<212> PRT

<213> Homo sapiens

<400> 3328

Met Leu Leu Leu Asp Ser Asp Val Trp Phe

1 5 10
```

```
<210> 3329

<211> 14

<212> PRT

<213> Homo sapiens

<400> 3329

Met Pro Trp Leu Gln Gln Leu Val Ser Phe Gly Leu Met Ser

1 5 10
```

<210> 3330 <211> 41 <212> PRT

```
<213> Homo sapiens
<400> 3330
Glu Ser Leu Leu Val Ile Ala Phe Leu Phe Phe Cys Ser Phe Ser
Phe Pro Ser Ile Lys Asp Leu Leu Tyr Ala Phe Arg Lys Ile Thr Lys
Ala Glu Cys Leu Leu Thr Ile Tyr Gly
<210> 3331
<211> 15
<212> PRT
<213> Homo sapiens
<400> 3331
Lys Asn Cys Tyr Pro Lys Gly Phe Leu Arg Ala Asn Cys Leu Leu
                            10
<210> 3332
<211> 15
<212> PRT
<213> Homo sapiens
<400> 3332
Met Thr Gln Gly Ile Ile Phe Leu Val Cys Ile Leu Asp Val Leu
<210> 3333
<211> 40
<212> PRT
<213> Homo sapiens
<400> 3333
Met Lys Ser Thr Asn Phe Leu Lys Gln Ala Leu Phe Phe Phe Trp
Lys Thr Cys Val Val Cys Pro Val Tyr Leu Phe Leu Met Arg Arg Pro
             20
Ala Phe Cys Gly Pro Arg Glu His
         35
<210> 3334
<211> 53
<212> PRT
<213> Homo sapiens
<400> 3334
Met Gly Ser Ser Thr Phe Ile Leu Phe Phe Ser Phe Leu Leu Phe Ser
                                     10
                5
```

Pro Phe Leu Ser Pro Ser Pro Thr Thr Ser Leu Tyr Phe Phe Phe Ile 20 25 30

Tyr Ser Arg Leu Ile Phe Ser Ala Lys Arg Cys Leu Gly Pro Leu Thr 35 40 45

Ser Gln Glu Ala Leu 50

<210> 3335

<211> 11

<212> PRT

<213> Homo sapiens

<400> 3335

Met His Phe His Ala Asp Tyr Met His Gly Cys
1 5 10

<210> 3336

<211> 37

<212> PRT

<213> Homo sapiens

<400> 3336

Asn Ser Leu Lys Thr Ile Ile Phe Ala Leu Lys Thr Val Val Phe Leu

1 10 15

Asp Leu Pro Val Tyr Ala His Ser Leu Leu Trp His Leu Tyr Ser Tyr 20 25 30

Cys Asn Ala Tyr Ser 35

<210> 3337

<211> 55

<212> PRT

<213> Homo sapiens

<400> 3337

Met Thr Phe Ser Pro Ala Leu Pro Pro Leu Arg Ser Pro Cys Ser Glu
1 5 10 15

Leu Leu Leu Trp Arg Tyr Pro Gly Ser Leu Ile Pro Glu Ala Leu Arg 20 25 30

Leu Leu Arg Leu Gly Asp Thr Pro Ser Pro Pro Tyr Pro Ala Thr Pro 35 40 45

Ala Gly Asp Ile Met Glu Leu 50 55

<210> 3338

35

```
<211> 19
<212> PRT
<213> Homo sapiens
<400> 3338
Gly Met Leu His Asp Gly Gln Leu Leu Pro Ser Leu Val Ile Ile His
Cys Ser Cys
<210> 3339
<211> 29
<212> PRT
<213> Homo sapiens
<400> 3339
Leu Glu Leu Leu Val Cys Asn Tyr Val Tyr Gly Asn Gly Val Val Phe
Met Ile Cys Ile Tyr Ile Ile Ile Trp Met Tyr Ile Tyr
<210> 3340
<211> 50
<212> PRT
<213> Homo sapiens
<400> 3340
Trp Pro Leu Pro Gln Val Leu Gln Glu Arg Val Trp Trp Ala His
Leu Gln Ser Gln Leu Leu Gly Lys Leu Gln Gly Leu Leu Glu Pro Arg
Lys Ser Gln Leu Ala Gly His Leu Glu Leu Pro Lys Asn Thr Leu Ser
Arg Lys
     50
<210> 3341
<211> 62
<212> PRT
<213> Homo sapiens
<400> 3341
Met Phe Leu Gly Ser Leu Gly Ile Cys Arg Phe Ala Leu Trp Ile Leu
Thr Val Phe Lys Val Leu Met Ile Ser Gln Ser Phe Phe Leu Thr Ser
Glu Lys Lys Met His Cys Phe Leu Ile Phe Pro Met Gln Asn Gln Asn
```

40

45

Lys Lys Leu Ile Leu Cys Phe Lys Lys Lys Lys Asn Ser 50 55 60

<210> 3342

<211> 40

<212> PRT

<213> Homo sapiens

<400> 3342

Met Lys Gly Val Leu Leu Ile Asn Leu Leu Tyr Tyr Leu Asp Thr Phe 1 5 10 15

Val Tyr Ser Leu Gln Pro Thr Cys Ile Arg Gly Ile Gly Val Gly Leu 20 25 30

Asn His Gln His Tyr Phe Ile Lys 35 40

<210> 3343

<211> 142

<212> PRT

<213> Homo sapiens

<400> 3343

Met Cys Ala Pro Ala Phe Pro Ala Trp Asn Val Phe Trp Leu Ser Cys 1 5 10 15

Ser Asn Ile Cys Glu Pro Ser Val Cys Pro Val Ser Leu Gly Ser Leu 20 25 30

Gln Val Gln Glu His Thr Cys Arg Ala Gln His Asp Asp Gly Val Lys 35 40 45

Gly Arg Lys Gln Ser Ser Glu Gly Val Gly Arg Trp Ala Val Cys Pro 50 60 .

Arg Gln Val Pro Ser Pro Pro Ala Ser Phe Leu Arg Pro Gly Arg Ala 65 70 75 80

Ala Met Val Leu Ala Ala Ser Pro Ser Val Leu Thr Val Ser Leu His
85 90 95

Leu Gly Pro Pro Glu Ser Gln Val Ser Phe Ser Ser Asn Leu Thr Arg 100 105 110

Glu Lys Lys His Gly Cys Ala Trp Pro Thr Gly Pro Gly Asp Gly 115 120 125

Pro Pro Arg Ser Leu Lys Leu Trp Met Ala Ala Val Leu Tyr 130 135 140

<210> 3344

<211> 43

<212> PRT

<213> Homo sapiens

<400> 3344

Met Met Leu Leu Asn Ser Ile Gln Val Leu Leu Tyr Val Pro Ile Val 1 5 10 15

Phe Arg Phe Leu Thr Asp Cys Cys Gly Cys Thr Ser Leu Ser Asp Cys 20 25 30

Ser Leu Ile Tyr Cys Arg Thr Leu Gly Cys Phe 35 40

<210> 3345

<211> 36

<212> PRT

<213> Homo sapiens

<400> 3345

Met Cys Ile Leu Phe Cys Thr Pro Ile Ser Leu Phe Leu Cys Trp Leu
1 5 10 15

Pro Gly Pro Ser Leu Glu Pro Trp Val Glu Arg Leu Leu Lys Asp His 20 25 30

His Arg Gln Pro 35

<210> 3346

<211> 81

<212> PRT

<213> Homo sapiens

<400> 3346

Met His Pro Phe Phe Pro Gln Arg Gly Trp Thr Gln Val Ser Leu Gly
1 10 15

Val Gly Ala Pro Ala Leu Cys His Arg His Gly Glu Gly Phe Leu Leu
20 25 30

Thr Pro Ser Ala Leu Pro Thr Trp Val Val Leu Ser Lys Lys Val Ile 35 40 45

Pro Pro Ala Leu Ala Pro Phe Pro Arg Thr Lys His Val Asp His Val 50 55 60

Gln Tyr Phe Leu Leu Cys Arg Glu Ala Ala Met Ser Glu Ile Lys Ala 65 70 75 80

Val

<210> 3347

<211> 7

<212> PRT

<213> Homo sapiens

<211> 41 <212> PRT

```
<400> 3347
Met Thr Ile Phe Glu Pro Ser
<210> 3348
<211> 51
<212> PRT
<213> Homo sapiens
<400> 3348
Met Gly Ala Ala Ala Pro Ala Trp Val Leu Leu Cys Ile Pro Ala
Gly Gln Gly Pro Leu Pro Gly Pro Arg Leu Pro Phe His Ile Pro Ile
Leu Lys Phe Cys Tyr Cys Gly Ile Leu Val Glu Lys Lys Glu Pro Arg
Gly Cys Phe
    50
<210> 3349
<211> 40
<212> PRT
<213> Homo sapiens
<400> 3349
Met Thr Ala Val Gly Gly Ser Ile Cys Val Met Leu Val Val Ile Cys
Leu Leu Val Ala Tyr Ile Thr Glu Asn Leu Met Arg Pro Ala Leu Ala
Arg Pro Gly Leu Arg Arg His Pro
         35
<210> 3350
<211> 17
<212> PRT
<213> Homo sapiens
<400> 3350
Met Ser Thr Gly His Gly Ala Cys Leu Val Ser Leu Pro Val Val Gln
Ala
<210> 3351
```

```
<213> Homo sapiens
```

<400> 3351

Met Arg Thr Leu Leu Phe Leu Ser Leu Ala Phe Lys Ala Cys His Asn 1 5 10 15

Leu Val Thr Pro Leu Ile Pro Val Ser Ser Ser Ile Phe Pro Ala Thr 20 25 30

His Arg Phe Pro Val Phe Thr Ile Ser 35 40

<210> 3352

<211> 7

<212> PRT

<213> Homo sapiens

<400> 3352

Met Ile Cys Leu Ala Leu Tyr 1 5

<210> 3353

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3353

Met Thr Gly Leu Tyr Ala Val Gly Arg Gly Ala Trp Thr Ala Gly Leu 1 5 10 15

Cys Ala Val Gly Trp Gly Gly Leu Asp Val Trp Leu Leu Cys Gly Ala 20 25 30

Gly Ala Gly Leu Gly Pro Xaa Gly Arg Leu Glu Gly Gln Pro Gly Pro
40 45

Val Val Ser Leu Val Arg Asn Arg Lys
50 55

<210> 3354

<211> 52

<212> PRT

<213> Homo sapiens

<400> 3354

Met Pro Ala Val Ser Ala Phe Phe Ser Leu Ala Ala Leu Ala Glu Val 1 5 10 15

Ala Ala Met Glu Asn Val His Arg Gly Gln Arg Ser Thr Pro Leu Thr 20 25 30

```
His Asp Gly Gln Pro Lys Glu Met Pro Gln Leu Pro Val Leu Ile Ser
                             40
Cys Ala Asp Gln
    50
<210> 3355
<211> 38
<212> PRT
<213> Homo sapiens
<400> 3355
Met Leu Ile Thr Leu Ile Ile Val Val Gly Thr Phe Cys Ser Trp Val
Gln Ala Tyr Phe Thr His Ile Trp Leu Leu Cys Leu Phe Trp Lys Thr
                                 25
Ala Ala Ser Trp Ser Asp
         35
<210> 3356
<211> 22
<212> PRT
<213> Homo sapiens
<400> 3356
Met Lys Phe Val Leu Phe Tyr Leu Cys Thr Gly Tyr Pro Leu Phe Trp
Glu Cys Phe Phe Ile Leu
             20
<210> 3357
<211> 15
<212> PRT
<213> Homo sapiens
<400> 3357
Asp Thr Ile Val Leu Ser Gly Cys Leu Cys Leu Cys Tyr Tyr Val
                                     10
  1
 <210> 3358
 <211> 10
 <212> PRT
 <213> Homo sapiens
 <400> 3358
```

Met Gly Thr Ser Ser Ile Leu Gln Met Lys 5

1

Asn Val His Arg Leu Ala Thr Ala Asp Val Leu 35 40

```
<210> 3360
<211> 68
<212> PRT
<213> Homo sapiens
```

His Trp Ile Ala Gly Ser Gly Tyr Cys Val Ile Val Ala Ala Leu Gly
20 25 30

Leu Ala Glu Gly Pro Leu Cys Leu Asp Ser Leu Gly Gln Trp Asn Tyr 35 40 45

Thr Phe Ala Gln His Arg Gly Pro Val Pro Ser Gly Tyr Leu His Met 50 55 60

Val Arg Val His 65

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<210> 3361
<211> 26
<212> PRT
<213> Homo sapiens
<400> 3361
```

Met Ala Leu Thr Gly Ala Phe Ile Val Lys Ser Tyr Ser Arg Gly Trp

1 5 10 15

Ser Cys Gly Cys Val Cys Ser Val Pro Ile $20 \hspace{1cm} 25$

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<210> 3362
<211> 10
<212> PRT
<213> Homo sapiens
<400> 3362
```

Met Leu Trp Ile Phe Lys Trp Gln Val Leu 1 5 10

<210> 3363

<211> 218

<212> PRT

<213> Homo sapiens

<400> 3363

Met Gly Met Trp Ser Ile Gly Ala Gly Ala Leu Gly Ala Ala Ala Leu 1 5 10 15

Ala Leu Leu Leu Ala Asn Thr Asp Val Phe Leu Ser Lys Pro Gln Lys
20 25 30

Ala Ala Leu Glu Tyr Leu Glu Asp Ile Asp Leu Lys Thr Leu Glu Lys
35 40 45

Glu Pro Arg Thr Phe Lys Ala Lys Glu Leu Trp Glu Lys Asn Gly Ala 50 55 60

Val Ile Met Ala Val Arg Arg Pro Gly Cys Phe Leu Cys Arg Glu Glu 65 70 75 80

Ala Ala Asp Leu Ser Ser Leu Lys Ser Met Leu Asp Gln Leu Gly Val 85 90 95

Pro Leu Tyr Ala Val Val Lys Glu His Ile Arg Thr Glu Val Lys Asp 100 105 110

Phe Gln Pro Tyr Phe Lys Gly Glu Ile Phe Leu Asp Glu Lys Lys Lys 115 120 125

Phe Tyr Gly Pro Gln Arg Arg Lys Met Met Phe Met Gly Phe Ile Arg 130 135 140

Leu Gly Val Trp Tyr Asn Phe Phe Arg Ala Trp Asn Gly Gly Phe Ser 145 150 155 160

Gly Asn Leu Glu Gly Glu Gly Phe Ile Leu Gly Gly Val Phe Val Val 165 170 175

Gly Ser Gly Lys Gln Gly Ile Leu Leu Glu His Arg Glu Lys Glu Phe 180 185 190

Gly Asp Lys Val Asn Leu Leu Ser Val Leu Glu Ala Ala Lys Met Ile 195 200 205

Lys Pro Gln Thr Leu Ala Ser Glu Lys Lys 210 215

<210> 3364

<211> 195

<212> PRT

<213> Homo sapiens

<400> 3364

Met Gly Met Trp Ser Ile Gly Ala Gly Ala Leu Gly Ala Ala Ala Leu
1 10 15

Ala Leu Leu Leu Ala Asn Thr Asp Val Phe Leu Ser Lys Pro Gln Lys 20 25 30

Ala Ala Leu Glu Tyr Leu Glu Asp Ile Asp Leu Lys Thr Leu Glu Lys 35 40 45

Glu Pro Arg Thr Phe Lys Ala Lys Glu Leu Trp Glu Lys Asn Gly Ala 50 55 60

Val Ile Met Ala Val Arg Arg Pro Gly Cys Phe Leu Cys Arg Glu Glu 65 70 75 80

Ala Ala Asp Leu Ser Ser Leu Lys Ser Met Leu Asp Gln Leu Gly Val 85 90 95

Pro Leu Tyr Ala Val Val Lys Glu His Ile Arg Thr Glu Val Lys Asp 100 105 110

Phe Gln Pro Tyr Phe Lys Gly Glu Ile Phe Leu Asp Glu Lys Lys Lys 115 120 125

Phe Tyr Gly Pro Gln Arg Arg Lys Met Met Phe Met Gly Phe Ile Arg 130 135 140

Leu Gly Val Trp Tyr Asn Phe Phe Arg Ala Trp Asn Gly Gly Phe Ser 145 150 155 160

Gly Asn Leu Glu Gly Glu Gly Ser Ser Leu Gly Glu Phe Ser Trp Trp 165 170 175

Asp Gln Glu Ser Arg Ala Phe Phe Leu Ser Thr Glu Lys Lys Asn Leu 180 185 190

Gly Thr Lys 195

<210> 3365

<211> 21

<212> PRT

<213> Homo sapiens

<400> 3365

Met Ser Trp Ile Leu Phe Leu Leu Ala Leu Val Glu His Ile Phe Pro 1 5 10 15

Leu Gln Ser Ser Gly
20

<210> 3366

<211> 18

<212> PRT

<213> Homo sapiens

<400> 3366

```
Gly Arg Ser Tyr Val Lys Asn Gln Val Phe Cys Gly Ile Phe Tyr Arg
                  5
Asn Arg
<210> 3367
<211> 41
<212> PRT
<213> Homo sapiens
<400> 3367
Met Lys Cys Phe Leu Leu Cys Cys Ala Ile Val Leu Cys Phe Ser
Lys His Cys Lys Asn Ser Ile Phe Gly Leu Val Phe Trp Ile Ile Tyr
Tyr Asn Leu Arg Ser Val Leu Leu Met
<210> 3368
<211> 21
<212> PRT
<213> Homo sapiens
<400> 3368
Met Phe Ile Tyr Leu Ala Val Phe Val Tyr Leu Leu Glu Leu Trp Ser
                                     10
Gln Leu Pro Gly Thr
<210> 3369
<211> 29
<212> PRT
<213> Homo sapiens
<400> 3369
Met Ser Lys Pro Lys Lys Tyr Thr Ile Val Leu Val Leu Pro Tyr
Arg Glu Ala Ile Gln Thr Val Gly Met Asn Leu Ser Tyr
<210> 3370
<211> 45
<212> PRT
<213> Homo sapiens
Met Val Thr Ser Gly Met Leu Val Phe Ser Ile Lys Thr Phe Ser Ser
```

Lys Ala Phe Leu Ala Val Val Ser Phe Ile Leu Val Val Ser Ile Lys 20 25 30

Cys Ser Glu Gly Ala Asp Thr Ser Arg Lys Gly Phe Ser 35 40 45

<210> 3371

<211> 38

<212> PRT

<213> Homo sapiens

<400> 3371

Met Ser Ala Leu Leu Glu Ile Leu Ala Leu Leu Leu His Ser Val Ser 1 5 10 15

Gly Pro Gly Met Gly Val Phe Arg Ser Ser Pro Ser Phe Pro Gly Ala 20 25 30

Ala Thr Trp Leu Phe Gly 35

<210> 3372

<211> 38

<212> PRT

<213> Homo sapiens

<400> 3372

Met Ser Ala Leu Leu Glu Ile Leu Ala Leu Leu Leu His Ser Val Ser 1 5 10 15

Gly Pro Gly Met Gly Val Phe Arg Ser Ser Pro Ser Phe Pro Gly Ala 20 25 30

Ala Thr Trp Leu Phe Gly 35

<210> 3373

<211> 30

<212> PRT

<213> Homo sapiens

<400> 3373

Met Arg Phe Phe Cys Ser Leu Met Phe Phe Gly Tyr Gly Tyr Gly Ile

10 15

Cys Arg Leu Gly Gly Lys Glu Leu Lys Ile Thr Gly Ala Gly 20 25 30

<210> 3374

<211> 35

<212> PRT

<213> Homo sapiens

<400> 3374
Met Asn Asn Leu Leu Ile Leu Phe Leu Lys Thr Ser Cys Leu Cys Phe
1 5 10 15

Leu Ile Cys Val Cys Ile Phe Lys His Phe Val Arg Leu Ser Ala Thr 20 25 30

Leu Gly Ser

<210> 3375 <211> 78

<212> PRT

<213> Homo sapiens

<400> 3375

Met Tyr Ile Ala Leu Ser Ser Val His Ala Leu Ile Leu Cys Gly Phe 1 5 10 15

Gln Phe Ile Ser Cys Val Arg Gly Gln Trp Thr Glu Cys Ser Asp Phe 20 25 30

Ser Pro Pro Ile Thr Val Ile Leu Leu Ile Phe Leu Cys Leu Glu Gly 35 40 45

Leu Leu Phe Phe Thr Phe Thr Gly Ser Tyr Val Trp His Pro Asn Pro 50 55 60

Leu His Met Gln Arg Arg Asp Gly Asp Arg Ala Ile Glu Lys
65 70 75

<210> 3376

<211> 8

<212> PRT

<213> Homo sapiens

<400> 3376

Met Leu Ala Ser Gly Glu Tyr Ile

<210> 3377

<211> 34

<212> PRT

<213> Homo sapiens

<400> 3377

Met Asn Val Phe Phe Phe Pro Cys Trp Ser Leu Ile Phe Met Ile Val 1 5 10 15

Phe Gln Phe Leu Asp Leu Thr Ser Cys Met Arg Ser Thr Glu Ser Thr 20 25 30

Gln Glu

```
<210> 3378
<211> 76
<212> PRT
<213> Homo sapiens
<400> 3378
Met Lys Lys His Val Leu Val Ala His Phe His Tyr Leu Ile Asn Ser
Tyr Phe Gly Leu Arg Thr Glu Glu Met Gly Glu Gln Pro Lys Thr Asn
Asp Thr Val Ser Ile Glu Lys Ile Pro Pro Pro Asp Lys Tyr Tyr Cys
Lys Lys Cys Asn Ala Gln Cys Gln Gln Pro Gly Cys Val Asn Val Ser
His Phe Asp Ile Arg His Thr Gln Arg Phe Gly Glu
                     70
<210> 3379
<211> 12
<212> PRT
<213> Homo sapiens
<400> 3379
Met Asn Gly Arg Arg Leu Ile Phe Pro Tyr Val Leu
<210> 3380
<211> 49
<212> PRT
<213> Homo sapiens
<400> 3380
Met Leu Ala Ala Asp Trp Leu Gly Trp Val Lys Ser Gln Gly Val Glu
Ala Val Leu Leu Trp Ala Glu Leu Leu Leu Gly Gly Ala Ile Gly Val
Gly Leu Leu Gly Pro Gly Arg Thr Thr Gly Val Arg His Ala Lys Ile
         35
Lys
```

```
<210> 3381
<211> 20
```

<212> PRT

<213> Homo sapiens

```
<400> 3381
 Met Phe Ser Trp Lys Leu Leu Tyr Ser Leu Ile Leu His Gly Leu Ala
Leu Asn Cys Leu
 <210> 3382
 <211> 30
 <212> PRT
 <213> Homo sapiens
 <400> 3382
 Met Phe Val Leu Leu Phe Ser Glu Ile Phe Leu Ser Thr Val Ala Gly
 Lys Leu Arg Ser Gly Pro Cys Ala Ala Cys Leu Leu Leu Pro
 <210> 3383
 <211> 34
 <212> PRT
 <213> Homo sapiens
 <400> 3383
 Met Thr Arg Asp Asp Thr Leu Ser Leu Trp Leu Gly Leu Val Ile Leu
 Ile Asn Cys Leu Tyr Leu Tyr Leu Thr Glu Thr Ser Leu Lys Met Pro
              20
 Leu Tyr
 <210> 3384
 <211> 28
  <212> PRT
 <213> Homo sapiens
  <400> 3384
  Ile Leu Ser Thr Gly Phe Cys Phe Leu Leu Phe Leu Phe Val Leu Arg
  Lys Gly Lys Lys Ser Gln Val Cys Leu Thr Ile Gln
               20
  <210> 3385
  <211> 37
  <212> PRT
  <213> Homo sapiens
  <400> 3385
```

Met Ser Phe Ser Leu Ser Leu Thr Thr Gln Tyr Leu Cys Val Ser Leu 1 5 10 15

Ser Leu Val Met Lys Cys Leu Ser Leu Trp Pro Val Ser His Cys Leu 20 25 30

Tyr Ile Cys Phe Pro 35

<210> 3386

<211> 31

<212> PRT

<213> Homo sapiens

<400> 3386

Met His Arg Lys Phe Cys Ile Phe Thr Leu Leu Leu Val Phe Ser Arg
1 5 10 15

Ser Glu Ser Glu His Leu Pro Phe Leu Ala Ala Gly Ala Leu 20 25 30

<210> 3387

<211> 73

<212> PRT

<213> Homo sapiens

<400> 3387

Met Thr Val Leu Leu Leu Leu Ile Pro Leu Ser Lys Arg Glu Pro Phe 1 5 10 15

Ser Lys Ser Phe Asp Gly Lys Ser Ser Gly Ile His Phe Ala Val Leu 20 25 30

Ile Gly Leu Leu Thr Phe Cys Phe Leu Ile Leu Lys Ser Cys Lys 35 40 45

Gly His Pro Phe Leu Phe Ser Ser Gln Cys Arg Asp Tyr Thr Asp Lys 50 55 60

Val Lys Phe Pro Gly Ala Ser Val Leu 65 70

<210> 3388

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

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<223> Xaa equals any of the naturally occurring L-amino acids
<400> 3388
Met Leu Leu Val Leu Thr Val Phe Ser Phe His Lys His Cys Ser Gly
Lys Leu Val Leu Cys Ala Ala Gly Pro Phe Ala Tyr Val Xaa Thr Ile
Asn Gln Xaa Leu Asn Leu Lys Lys Lys
<210> 3389
<211> 8
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 3389
Val Xaa Pro Cys Gly Cys Xaa Xaa
  1
<210> 3390
<211> 40
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 3390
Met Leu Xaa Leu Arg Leu Thr Ile Val Ile Ile His Ile Ser Val Ser
Ala Asp Leu Ser Leu Gln Tyr Phe Phe Ser Xaa Leu Xaa Asn Phe Leu
                                 25
Xaa Leu Xaa Val Lys Pro Lys Cys
<210> 3391
<211> 37
<212> PRT
<213> Homo sapiens
<400> 3391
Met Lys Glu Met Asn Asp Phe Cys Gln Ser Leu Phe Ile Gln Ser Ser
His Ser Val Asn Cys Phe Leu Ile Arg Ser Ala Ser Ala Arg Thr Val
Leu Thr Ser Ile Ile
         35
<210> 3392
<211> 91
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 3392
Met Glu Lys Thr Leu Phe Leu Tyr His Tyr Leu Pro Xaa Leu Thr Phe
Gln Ile Leu Leu Pro Val Val Leu Gln His Ile Ser Asp His Leu
                                                      30
```

Cys Arg Ser Gln Leu Gln Arg Xaa Ile Phe Ser Ala Leu Val Val Ala

35 40 45

Trp Tyr Ser Ser Ala Cys His Val Ser Asn Thr Leu Arg Pro Leu Thr 50 55 60

Tyr Gly Asp Lys Ser Leu Ser Pro His Glu Leu Lys Ala Leu Arg Trp 65 70 75 80

Lys Asp Ser Trp Asp Ile Leu Ile Arg Lys His 85 90

<210> 3393

<211> 48

<212> PRT

<213> Homo sapiens

<400> 3393

Met Ser Ser Arg Pro Leu Trp Arg Ala Arg Ala Leu Ile Trp Leu Thr 1 5 10 15

Trp Gly Gln Pro Arg Thr Val Ser Phe Leu Arg Leu Thr Gly Cys Ser 20 25 30

Arg Arg Pro Gln Ser Met Leu Gln Arg Val Lys Ser Ala Ser Glu Ala 35 40 45

<210> 3394

<211> 43

<212> PRT

<213> Homo sapiens

<400> 3394

Phe Ser Tyr Cys Leu Arg Val Ile Ser Leu Cys Lys Pro Leu Ser Phe 1 5 10 15

Val Leu Val Phe Phe Ser Ile Met Lys Leu Trp Tyr Cys Thr Arg Ser 20 25 30

Val Val Arg Cys Ser Leu Val Ser Gly Leu Val 35 40

<210> 3395

<211> 38

<212> PRT

<213> Homo sapiens

<400> 3395

Met Ala Asn Leu Ala Ala Leu Ser Leu Cys Phe Leu Leu Phe Ser Phe 1 5 10 15

Leu Pro Leu Phe Pro Thr Leu Leu Ser Ser Leu Gln Ser Thr Thr Cys 20 25 30

Thr Pro Gly Ala Pro Gly 35

```
<210> 3396
<211> 19
<212> PRT
<213> Homo sapiens
<400> 3396
Met Trp Leu Met Met Gln Leu Leu Ser Phe Phe Val Phe Leu Cys Leu
             5
                                     10
Leu Tyr Leu
<210> 3397
<211> 19
<212> PRT
<213> Homo sapiens
<400> 3397
Met Trp Leu Met Met Gln Leu Leu Ser Phe Phe Val Phe Leu Cys Leu
Leu Tyr Leu
<210> 3398
<211> 19
<212> PRT
<213> Homo sapiens
<400> 3398
Met Trp Leu Met Met Gln Leu Leu Ser Phe Phe Val Phe Leu Cys Leu
                                      10
Leu Tyr Leu
<210> 3399
<211> 134
<212> PRT
<213> Homo sapiens
<400> 3399
Met Glu Met Met Glu Ser Gln Thr Leu Leu Leu Thr Leu Leu Ser Val
Lys Met Glu Asn Asn Leu Ala Glu Phe Glu Arg Arg Ala Glu Lys Asn
             20
                                                      30
```

Leu Leu Ile Met Cys Lys Glu Lys Glu Lys Leu Gln Lys Lys Ala His

35	40	45
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Glu Leu Lys Arg Arg Leu Leu Ser Gln Arg Lys Arg Glu Leu Ala 50 60

Asp Val Leu Asp Ala Gln Ile Glu Met Leu Ser Pro Phe Glu Ala Val 65 70 75 80

Ala Thr Arg Phe Lys Glu Gln Tyr Arg Thr Phe Ala Thr Ala Leu Asp 85 90 95

Thr Thr Arg His Glu Leu Pro Val Lys Ser Ile His Leu Glu Gly Asp 100 105 110

Gly Gln Gln Leu Leu Asp Ala Leu Gln Leu Glu Leu Val Thr Ile Gln
115 120 125

Arg Leu Leu Gly Arg Thr 130

<210> 3400

<211> 35

<212> PRT

<213> Homo sapiens

<400> 3400

Met Pro Leu Met Ser Leu Leu Val Thr Val His Phe Val Val Leu Ser 1 5 10 15

Lys Cys Cys Ala Asn Ser Lys Pro Phe Leu Lys Phe Phe Ala Leu Ile 20 25 30

Arg Val Pro 35

<210> 3401

<211> 24

<212> PRT

<213> Homo sapiens

<400> 3401

Met His Ile Asn Phe Leu Phe Ser Phe Tyr Ser Thr Tyr Gln Leu His 1 5 10 15

Ser Val Cys Phe Pro Lys Leu Val 20

<210> 3402

<211> 39

<212> PRT

<213> Homo sapiens

<100× 3402

Met Asp Ser Leu Ala Trp Gly Gly Ile Phe Glu Leu His Phe Leu Gln 1 5 10 15

```
Cys Ala Ser Pro Ser Gln Arg Ile Gln Gly Cys His Gln Leu Leu
             20
Glu Gly Ala Leu Cys Leu Val
         35
<210> 3403
<211> 12
<212> PRT
<213> Homo sapiens
<400> 3403
Phe Phe His Ile Cys Ile Thr Ile Cys Ser Phe Ser
                 5
<210> 3404
<211> 13
<212> PRT
<213> Homo sapiens
<400> 3404
Met Glu Ala Glu Glu Ala Leu Leu Trp Ile Leu Leu Gln
         5
<210> 3405
<211> 43
<212> PRT
<213> Homo sapiens
<400> 3405
Met Val Asn Asp Ser Leu Leu Tyr Phe Ser Phe Phe Phe Phe Phe
Leu Trp Phe Ser Ser Trp Ile His Pro Leu Ile Leu Asn Gln Asn Val
Arg Ser Met Asn Tyr Glu Leu Lys Tyr Phe Ser
         35
<210> 3406
<211> 17
<212> PRT
<213> Homo sapiens
```

Gly Ile Val Leu Leu Ile Gly Val Leu Val Gln Val Ser Ala Val Asp

10

1748

<400> 3406

Asp

<210> 3407 <211> 74

<212> PRT

<213> Homo sapiens

<400> 3407

Met Glu Gln Val His Pro Gly Arg Thr Arg Thr Arg Leu His Cys Gly
1 5 10 15

Leu Glu Ile Gln Gly Cys Gln Arg Phe Leu Leu Cys Ala Phe Leu Ile 20 25 30

Ser Trp Leu Pro Gly Gly Ala Pro Gly Cys His Ser Pro Leu Leu Trp 35 40 45

Pro Tyr Ser Ile Phe His Ser Asn Ala Ser Leu Cys Gly Arg Ser Ser 50 60

Asp Asn Ser Ser Asp Gln Asp Phe Lys Ile 65 70

<210> 3408

<211> 435

<212> PRT

<213> Homo sapiens

<400> 3408

Met Gly His Asn Phe Gly Met Phe His Asp Asp Tyr Ser Cys Lys Cys 1 5 10 15

Pro Ser Thr Ile Cys Val Met Asp Lys Ala Leu Ser Phe Tyr Ile Pro 20 25 30

Thr Asp Phe Ser Ser Cys Ser Arg Leu Ser Tyr Asp Lys Phe Phe Glu 35 40 45

Asp Lys Leu Ser Asn Cys Leu Phe Asn Ala Pro Leu Pro Thr Asp Ile 50 55 60

Ile Ser Thr Pro Ile Cys Gly Asn Gln Leu Val Glu Met Gly Glu Asp
65 70 75 80

Cys Asp Cys Gly Thr Ser Glu Glu Cys Thr Asn Ile Cys Cys Asp Ala 85 90 95

Lys Thr Cys Lys Ile Lys Ala Thr Phe Gln Cys Ala Leu Gly Glu Cys 100 105 110

Cys Glu Lys Cys Gln Phe Lys Lys Ala Gly Met Val Cys Arg Pro Ala 115 120 125

Lys Asp Glu Cys Asp Leu Pro Glu Met Cys Asn Gly Lys Ser Gly Asn 130 135 140

Cys Pro Asp Asp Arg Phe Gln Val Asn Gly Phe Pro Cys His His Gly 145 150 155 160

Lys Gly His Cys Leu Met Gly Thr Cys Pro Thr Leu Gln Glu Gln Cys

165 170 175

Thr Glu Leu Trp Gly Pro Gly Thr Glu Val Ala Asp Lys Ser Cys Tyr 180 185 190

Asn Arg Asn Glu Gly Gly Ser Lys Tyr Gly Tyr Cys Arg Arg Val Asp 195 200 205

Asp Thr Leu Ile Pro Cys Lys Ala Asn Asp Thr Met Cys Gly Lys Leu 210 215 220

Phe Cys Gln Gly Gly Ser Asp Asn Leu Pro Trp Lys Gly Arg Ile Val 225 230 235 240

Thr Phe Leu Thr Cys Lys Thr Phe Asp Pro Glu Asp Thr Ser Gln Glu 245 250 255

Ile Gly Met Val Ala Asn Gly Thr Lys Cys Gly Asp Asn Lys Val Cys 260 265 270

Ile Asn Ala Glu Cys Val Asp Ile Glu Lys Ala Tyr Lys Ser Thr Asn 275 280 285

Cys Ser Ser Lys Cys Lys Gly His Ala Val Cys Asp His Glu Leu Gln 290 295 300

Cys Gln Cys Glu Glu Gly Trp Ile Pro Pro Asp Cys Asp Asp Ser Ser 305 310 315 320

Val Val Phe His Phe Ser Ile Val Val Gly Val Leu Phe Pro Met Ala 325 330 335

Val Ile Phe Val Val Val Ala Met Val Ile Arg His Gln Ser Ser Arg 340 345 350

Glu Lys Gln Lys Lys Asp Gln Arg Pro Leu Ser Thr Thr Gly Thr Arg 355 360 365

Pro His Lys Gln Lys Arg Lys Pro Gln Met Val Lys Ala Val Gln Pro 370 375 380

Gln Glu Met Ser Gln Met Lys Pro His Val Tyr Asp Leu Pro Val Glu 385 390 395 400

Gly Asn Glu Pro Pro Ala Ser Phe His Lys Asp Thr Asn Ala Leu Pro 405 410 415

Pro Thr Val Phe Lys Asp Asn Pro Met Ser Thr Pro Lys Asp Ser Asn 420 425 430

Pro Lys Ala 435

<210> 3409

<211> 32

<212> PRT

<213> Homo sapiens

<400> 3409

Met Lys Val Leu Ser Phe Leu Leu Cys Ile Arg Ile Ser Phe Leu Phe 1 5 10 15

Val Val Glu Ser Ile Val Arg Gly Ile Ser Lys Leu Asn Glu Val Asn 20 25 30

<210> 3410

<211> 32

<212> PRT

<213> Homo sapiens

<400> 3410

Met Lys Val Leu Ser Phe Leu Leu Cys Ile Arg Ile Ser Phe Leu Phe 1 5 10 15

Val Val Glu Ser Ile Val Arg Gly Ile Ser Lys Leu Asn Glu Val Asn 20 25 30

<210> 3411

<211> 27

<212> PRT

<213> Homo sapiens

<400> 3411

Met Leu His Ile Ile Gln Lys Leu Tyr Pro Asp His Leu Phe Leu Phe 1 10 15

Phe Ile Val Lys Tyr Leu Cys Phe Ile His Cys 20 25

<210> 3412

<211> 14

<212> PRT

<213> Homo sapiens

<400> 3412

Met Gly Ile Thr His Glu Tyr Leu Cys Val Cys Val Cys Val 1 5 10

<210> 3413

<211> 105

<212> PRT

<213> Homo sapiens

<400> 3413

Met Trp Gly Ala Phe Trp Asn Thr Leu Leu Cys Pro Val Ser Gly Ala 1 5 10 15

Glu Gly Tyr Arg Gln Ser Met Pro His Lys Pro Ala His Pro Arg Asp 20 25 30

Thr Ser Thr Leu Cys Pro Ser Cys Met Tyr His Trp Gly Arg Asn Leu 35 40 45

Gly Ser Val Phe Thr Thr Ala Ala Ala Trp Ser His Glu Phe Phe Pro 50 55 60

Ser Ala Ala Asp Ser Leu Gln Gly Gly Ser Ser Leu Pro Pro Pro Leu 65 70 75 80

Leu Lys Leu Gln Ser Thr Gly Tyr Gly Ser Gly Trp Phe Pro Gln Gly 85 90 95

Ser Arg Tyr Val Gly Gly Glu Glu Asn 100 105

<210> 3414

<211> 36

<212> PRT

<213> Homo sapiens

<400> 3414

Met Lys Tyr Ser Cys Leu Lys Gly Ser Tyr Thr Val Phe Met Ala Ile 1 5 10 15

Leu Ala Leu Leu Val Val Cys Ile Phe Tyr Gln Arg Lys Pro Val
20 25 30

Phe Arg Asp Gly 35

<210> 3415

<211> 21

<212> PRT

<213> Homo sapiens

<400> 3415

Val Gly Ile Cys Leu Ser Phe Thr Gln Gly Trp Ser Trp Ser Phe Thr
1 10 15

Cys Gln Phe Cys Leu 20

<210> 3416

<211> 29

<212> PRT

<213> Homo sapiens

<400> 3416

Met Asp Ser Ala Thr Ala Pro Val Ala Ala Gly Asp Cys Gly Gln Trp 1 5 10 15

<212> PRT

<400> 3420

<213> Homo sapiens

5

Trp Thr Leu Leu Cys Thr Cys Cys Arg Leu Phe Leu 20 25

<210> 3417 <211> 30 <212> PRT <213> Homo sapiens <400> 3417 Met Trp Gly Gly Gln Arg Val Cys Trp Ala Gly Phe Ala Phe Pro Ala Gly Ala Thr Ala Val Leu Thr Asn Glu Val Cys Cys Gln Val <210> 3418 <211> 51 <212> PRT <213> Homo sapiens <400> 3418 Gly Cys Glu Gly Leu Ala Ile Leu Leu Ser Trp Val His Val Ser Asp Arg Asn Gly Ala Ala Trp Glu Arg Ser Pro Ser Phe Thr Phe Ser Leu Leu Pro Pro Pro Pro Tyr Ser Lys Thr Val Pro Pro Thr Glu Gly Gln Gly Leu Leu 50 <210> 3419 <211> 30 <212> PRT <213> Homo sapiens <400> 3419 Met Ile His Leu Gly Phe Leu Leu Pro Leu Ser Leu Val Trp Arg Arg Arg Asp Gly Ile Gln Trp Thr Glu Glu Phe Ile Phe Gln Gly 20 25 <210> 3420 <211> 30

Met Ile Ile Gln Leu Val Leu Ser Leu Pro Leu Phe Phe Leu Cys Cys

```
Asp Ser Val Thr Glu Tyr Glu Leu Val Ala Arg Val Leu Trp
20 25 30
```

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<210> 3421
<211> 6
<212> PRT
<213> Homo sapiens
<400> 3421
Met Thr Tyr Met Val Ala
1
```

<210> 3422 <211> 39 <212> PRT <213> Homo sapiens

Ile Pro Ser Ser Leu Ser Ala Tyr Leu Met Thr Pro Ala Phe Gln Ile 20 25 30

His Arg Phe Thr Phe Ser Ile 35

<210> 3423 <211> 56 <212> PRT <213> Homo sapiens

<400> 3423

Met Pro Asn Asn Leu Ser Leu Phe Tyr Val Phe Ser Leu Ser Phe Leu 1 5 10 15

Ser Ser Phe Ile Pro Leu Ile Val Thr Ala Lys Lys Met Ser Val Pro 20 25 30

Val Thr Leu Pro Pro Leu Phe Ser Leu Ser Pro Ala Leu Trp Ser Gly 35 40 45

Pro Trp Ser Thr Ser Asn Ser Pro 50 55

<210> 3424 <211> 44 <212> PRT <213> Homo sapiens

<400> 3424 Met His Gln Asn Val Leu Gly Arg Val Ser Trp Leu Arg Ile Gly Leu

1 5 10 15

Phe Glu Leu Phe Gln Trp Ala Leu Gly His Arg Gly Cys Pro Leu Leu 20 25 30

Ser Gly Ala Arg Ala Trp Gly Asp Glu Gly Arg Gly 35 40

<210> 3425

<211> 756

<212> PRT

<213> Homo sapiens

<400> 3425

Ala Arg Val His Cys Leu Lys Lys Ala Val Arg Leu Asp Ser Asn Asn 1 5 10 15

His Leu Tyr Trp Asn Ala Leu Gly Val Val Ala Cys Tyr Ser Gly Ile 20 25 30

Gly Asn Tyr Ala Leu Ala Gln His Cys Phe Ile Lys Ser Ile Gln Ser 35 40 45

Glu Gln Ile Asn Ala Val Ala Trp Thr Asn Leu Gly Val Leu Tyr Leu
50 55 60

Thr Asn Glu Asn Ile Glu Gln Ala His Glu Ala Phe Lys Met Ala Gln 65 70 75 80

Ser Leu Asp Pro Ser Tyr Leu Met Cys Trp Ile Gly Gln Ala Leu Ile 85 90 95

Ala Glu Ala Val Gly Ser Tyr Asp Thr Met Asp Leu Phe Arg His Thr
100 105 110

Thr Glu Leu Asn Met His Thr Glu Gly Ala Leu Gly Tyr Ala Tyr Trp
115 120 125

Val Cys Thr Thr Leu Gln Asp Lys Ser Asn Arg Glu Thr Glu Leu Tyr 130 135 140

Gln Tyr Asn Ile Leu Gln Met Asn Ala Ile Pro Ala Ala Gln Val Ile 145 150 155 160

Leu Asn Lys Tyr Val Glu Arg Ile Gln Asn Tyr Ala Pro Ala Phe Thr 165 170 175

Met Leu Gly Tyr Leu Asn Glu His Leu Gln Leu Lys Lys Glu Ala Ala 180 185 190

Asn Ala Tyr Gln Arg Ala Ile Leu Leu Leu Gln Thr Ala Glu Asp Gln 195 200 205

Asp Thr Tyr Asn Val Ala Ile Arg Asn Tyr Gly Arg Leu Leu Cys Ser 210 215 220

Thr Gly Glu Tyr Asp Lys Ala Ile Gln Ala Phe Lys Ser Thr Pro Leu 225 230 235 240

Glu Val Leu Glu Asp Ile Ile Gly Phe Ala Leu Ala Leu Phe Met Lys 245 250 Gly Leu Tyr Lys Glu Ser Ser Lys Ala Tyr Glu Arg Ala Leu Ser Ile Val Glu Ser Glu Gln Asp Lys Ala His Ile Leu Thr Ala Leu Ala Ile Thr Glu Tyr Lys Gln Gly Lys Thr Asp Val Ala Lys Thr Leu Leu Phe Lys Cys Ser Ile Leu Lys Glu Pro Thr Thr Glu Ser Leu Gln Ala Leu 310 315 Cys Ala Leu Gly Leu Ala Met Gln Asp Ala Thr Leu Ser Lys Ala Ala 325 330 Leu Asn Glu Leu Leu Lys His Ile Lys His Lys Asp Ser Asn Tyr Gln Arg Cys Leu Leu Thr Ser Ala Ile Tyr Ala Leu Gln Gly Arg Ser Val 360 Ala Val Gln Lys Gln Ile Ser Lys Ala Val His Ser Asn Pro Gly Asp Pro Ala Leu Trp Ser Leu Leu Ser Arg Val Val Ala Gln Tyr Ala Gln Arg Asn Ala Lys Gly Gly Val Val Ala Gly Asn Val Ala His Ile Leu 410 Asp Ser Asn His Gly Lys Lys Ala Leu Leu Tyr Thr Ala Val Asn Gln 425 420 Leu Ala Met Gly Ser Ser Ser Ala Glu Asp Glu Lys Asn Thr Ala Leu 440 435 Lys Thr Ile Gln Lys Ala Ala Leu Leu Ser Pro Gly Asp Pro Ala Ile 455 450 Trp Ala Gly Leu Met Ala Ala Cys His Ala Asp Asp Lys Leu Ala Leu 470 475 Met Asn Asn Thr Gln Pro Lys Arg Ile Asp Leu Tyr Leu Ala Leu Leu 485 490 Ser Ala Val Ser Ala Ser Ile Lys Asp Glu Lys Phe Phe Glu Asn Tyr Asn Gln Ser Leu Glu Lys Trp Ser Leu Ser Gln Ala Val Thr Gly Leu 520 515 Ile Asp Thr Gly Arg Ile Ser Glu Ala Glu Thr Leu Cys Thr Lys Asn Leu Lys Ser Asn Pro Asp Gln Pro Ala Val Ile Leu Leu Leu Arg Gln 555 560 545 Val Gln Cys Lys Pro Leu Pro Glu Ser Gln Lys Pro Leu Pro Asp Ala

570 575 565 Val Leu Glu Glu Leu Gln Lys Thr Val Met Ser Asn Ser Thr Ser Val 580 585 Pro Ala Trp Gln Trp Leu Ala His Val Tyr Gln Ser Gln Gly Met Met Arg Ala Ala Glu Met Cys Tyr Arg Lys Ser Leu Gln Leu Ala Ser Gln Arg Gly Ser Trp Ser Gly Lys Leu Ser Ser Leu Leu Arg Leu Ala Leu Leu Ala Leu Lys Val Cys Met Ala Asn Ile Ser Asn Asp His Trp Pro Ser Leu Val Gln Glu Ala Thr Thr Glu Ala Leu Lys Leu Cys Phe Cys 665 Pro Leu Ala Val Leu Cln Ala Leu Leu Gln Phe Lys Arg Lys Met 680 Gly Ala Arg Glu Thr Arg Arg Leu Leu Glu Arg Val Val Tyr Gln Pro Gly Tyr Pro Lys Ser Ile Ala Ser Thr Ala Arg Trp Tyr Leu Leu Arg His Leu Tyr Ala Lys Asp Asp Tyr Glu Leu Ile Asp Val Leu Val Asn 725 Asn Ala Lys Thr His Gly Asp Thr Arg Ala Leu Glu Leu Asn Gln Arg 745 Leu Ser Ser Gln 755

<210> 3426

<211> 81

<212> PRT

<213> Homo sapiens

<400> 3426

Met Ala Ala Arg Val Gly Ala Phe Leu Lys Asn Ala Trp Asp Lys Glu

1 1 5 15

Pro Val Leu Val Val Ser Phe Val Val Gly Gly Leu Ala Val Ile Leu 20 25 30

Pro Pro Leu Ser Pro Tyr Phe Lys Tyr Ser Val Met Ile Asn Lys Ala 35 40 45

Thr Pro Tyr Asn Tyr Pro Ala Ala Gly Glu Lys Gly His Arg Ile Glu 50 55 60

Leu Ser Ser His Ser Thr Gln Arg Gln Ser Cys Pro Gly Ala Arg Arg 65 70 75 80

Ser

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<210> 3427
<211> 29
<212> PRT
<213> Homo sapiens
<400> 3427
Met Arg Leu Gln Ser Cys Ser Ser Gln Thr Ala Ala Leu Leu Ser
                                     10
Phe Tyr Leu Pro Glu Ser Cys Ala Ser Gln Ser Pro Gly
<210> 3428
<211> 39
<212> PRT
<213> Homo sapiens
<400> 3428
Met Cys Thr Leu Leu Ile Phe Phe Leu Ile Leu Pro His Trp Trp Leu
                                      10
Gly Thr Trp Glu Arg Glu Gln Ala Phe Leu His Gly Pro Ser Leu Gly
Cys Gly Glu Gln Arg Pro Met
         35
<210> 3429
<211> 39
<212> PRT
<213> Homo sapiens
<400> 3429
Met Cys Thr Leu Leu Ile Phe Phe Leu Ile Leu Pro His Trp Trp Leu
Gly Thr Trp Glu Arg Glu Gln Ala Phe Leu His Gly Pro Ser Leu Gly
             20
Cys Gly Glu Gln Arg Pro Met
         35
<210> 3430
<211> 39
<212> PRT
<213> Homo sapiens
Met Cys Thr Leu Leu Ile Phe Phe Leu Ile Leu Pro His Trp Trp Leu
```

10

5

1

Gly Thr Trp Glu Arg Glu Gln Ala Phe Leu His Gly Pro Ser Leu Gly 20 25 30

Cys Gly Glu Gln Arg Pro Met

<210> 3431

<211> 32

<212> PRT

<213> Homo sapiens

<400> 3431

Met His Ile Leu Asn Val Cys Leu Tyr Phe Phe Ile Leu Asn Ile Ile 1 5 10 15

Phe Val Pro Leu Cys Phe Thr Ser Asn Ile Tyr Leu Tyr Lys Cys Val 20 25 30

<210> 3432

<211> 10

<212> PRT

<213> Homo sapiens

<400> 3432

Met Cys Cys Cys Met Arg Leu His Cys Cys 1 5 10

<210> 3433

<211> 92

<212> PRT

<213> Homo sapiens

<400> 3433

Met Arg Arg Met Arg Met Leu Ala Leu Trp Gln Gln Leu Leu His
1 5 10 15

Pro Ser Gly Asp Pro Glu Gln Thr Gln Ser Trp Ser Val Trp Lys Val 20 25 30

Pro Ser Ser Gly Gly Ser Cys Arg Cys Arg Ser Ser Gly Thr Gln Ser 35 40 45

Ser Ile Gly Thr Arg Cys Ser Ala Arg Trp Ala Gly Val Val Gly Ser 50 60

Arg Pro Gln His His Gly Cys Gln Leu Pro Gly Trp Thr Lys Gln Gly 65 70 75 80

Ala Thr Ser Pro Phe Pro Arg Phe Gln Ser Ser Leu 85 90

<210> 3434 <211> 103

<212> PRT

<213> Homo sapiens

<400> 3434

Met Leu Gln Asn Ser Val Tyr Val Asn Phe Leu Leu Thr Gly Leu Val 1 5 10 15

Ala Gln Leu Ala Cys His Pro Gln Pro Leu Leu Arg Ser Phe Leu Leu 20 25 30

Asn Thr Asn Met Val Phe Gln Pro Ser Val Lys Ser Leu Leu Gln Val 35 40 45

Leu Gly Ser Val Lys Asn Lys Ile Glu Asn Phe Ala Ala Ser Gln Glu 50 55 60

Asp Phe Pro Ala Leu Leu Ser Lys Ala Lys Lys Tyr Leu Ile Ala Arg 65 70 75 80

Gly Lys Leu Asp Trp Ala Glu Gly Pro Ala Ala Gly Pro Ala Pro Arg 85 90 95

Arg Ser Asp Pro Leu Glu Pro 100

<210> 3435

<211> 30

<212> PRT

<213> Homo sapiens

<400> 3435

Met Lys Ala Val Gly Phe Val Phe Leu Phe Thr Thr Ile Leu Ser His 1 5 10 15

Ile Leu Leu Trp Ala Phe Val Val Tyr Phe Lys Lys Thr Val 20 25 30

<210> 3436

<211> 93

<212> PRT

<213> Homo sapiens

<400> 3436

Met Leu Leu Ile Val Val Ser Val Cys Thr Ala Thr Gly Ala Trp Asn 1 5 10 15

Trp Leu Ile Asp Pro Glu Thr Gln Lys Val Ser Phe Phe Thr Ser Leu 20 25 30

Trp Asn His Pro Phe Phe Thr Ile Ser Cys Ile Thr Leu Ile Gly Leu 35 40 45

Phe Phe Ala Gly Ile His Lys Arg Val Val Ala Pro Ser Ile Ile Ala

50 55 60

Ala Arg Cys Arg Thr Val Leu Ala Glu Tyr Asn Met Ser Cys Asp Asp 65 70 75 80

Thr Gly Lys Leu Ile Leu Lys Pro Arg Pro His Val Gln
85 90

<210> 3437

<211> 46

<212> PRT

<213> Homo sapiens

<400> 3437

Met Leu Phe Arg Phe Val Phe Ile Tyr Leu Phe Gly Pro Ala Lys Leu
1 5 10 15

Pro Ser Leu Gln Arg Pro Trp Thr Arg Ile Gln Pro Val Pro Leu Cys 20 25 30

Pro Thr Thr Leu His Ser Gln Arg Leu Ala Met Gln Pro Thr 35 40 45

<210> 3438

<211> 161

<212> PRT

<213> Homo sapiens

<400> 3438

Met Trp Pro Gly Arg Ile Met Thr Val Thr Val Val Leu Leu Cys Cys 1 5 10 15

Ser Thr Ala Ser Ile Trp Pro Cys Leu Ser His Ser Ala Ser Pro Ser 20 25 30

Arg Thr Cys Pro Asn Phe Val Gly Arg Ser Thr Arg Ser Cys Val Thr 35 40 45

Ala Asn Ser Leu Cys Glu Pro Arg Thr Pro Asp Pro Lys Pro Ile Asn 50 55 60

Gly Lys Gly Asp Met Gly Val Pro Ser Gln Glu Thr Pro Val Pro Phe
65 70 75 80

Leu Ser Cys Leu Phe Pro Leu Thr Ser Leu Trp Phe Phe Ile Phe Lys 85 90 95

Cys Phe Asn Phe Cys Ile Phe Phe Ser Leu Arg Glu Tyr Leu Leu Ile 100 105 110

Ser Asp Val Gln Gly Val Ala Thr Glu Lys Pro Leu Ser Ser Ser Val

Cys Arg Gly Val Trp Pro Cys Gly Leu Gly Gly Ala Val Ile Leu Pro 130 135 140

Leu Pro Arg Ala Gly Ser Arg Lys Ser Val Leu Gly Val Val Gly

145 150 155 160

Gln

<210> 3439 <211> 11 <212> PRT <213> Homo sapiens <400> 3439 Met Ser Pro Gly Gly Ile Cys Asn Cys Ile Ile

<210> 3440 <211> 57 <212> PRT <213> Homo sapiens

<213> HOMO Saprens

<400> 3440

Met Trp Leu Leu Lys Pro Ser Ala His Ser Pro Val His Val Leu Val 1 5 10 15

Leu Leu Phe Pro Arg Gly Trp Ser Gln Pro Gly Thr His Lys Arg Gln 20 25 30

Ile Leu Val Asn Ala Ala Ser Leu Pro Gly Gly Cys Leu Leu Pro Trp 35 40 45

Ile Trp Ser Gly Ala Ala Leu Arg Phe 50 55

<210> 3441 <211> 68 <212> PRT <213> Homo sapiens

Ala Leu Arg Leu Arg Arg Leu Trp Arg Gly Ser Glu Thr Arg Gly Pro
20 25 30

Ala Gly Gly Ser Leu Cys Val Ser Arg His Cys Ser Pro Ser His Pro 35 40 45

Gly Gly Ser Leu Glu Trp Val Leu Gln Leu Pro Ser Trp Val Arg Ser 50 55 60

Glu Ala Gly Arg 65

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<210> 3442
<211> 3
<212> PRT
<213> Homo sapiens
<400> 3442
Ala Cys Val
<210> 3443
<211> 27
<212> PRT
<213> Homo sapiens
<400> 3443
Met Asn Val Ile Ile Val Leu Val His Ala Leu Cys Pro Trp Cys Arg
Gly Cys Pro His Trp Gly Pro Leu Val Pro Pro
<210> 3444
<211> 34
<212> PRT
<213> Homo sapiens
<400> 3444
Met Gln Val Gln Thr Thr Val Leu Leu Gln Ala Asp Phe Phe Arg
                                     10
                  5
Val Arg Ala Pro Cys Gly Glu Leu Arg Ala Ala Ser Ile Arg Ala Lys
                                 25
Pro Trp
<210> 3445
<211> 50
<212> PRT
<213> Homo sapiens
<400> 3445
Met Ala Gln Ile Thr Trp Ile His Leu Leu Ser Val Val Ile Cys Ser
                                     10
Ala Pro Pro Arg Arg Leu His Arg Gln His Ser Ala Val Gln Ala Trp
Ala Ala His Arg Glu His Val Gln Pro Ser Leu Thr Ser Ser Gly Arg
                              40
Met Pro
. 50
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<210> 3450

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<210> 3446
<211> 26
<212> PRT
<213> Homo sapiens
<400> 3446
Met Arg Ser Pro Pro His Phe Ile Phe Phe Leu Lys Cys Pro Gly
Leu Gly Trp Gly Gly Gln Pro Pro Gly Val
<210> 3447
<211> 50
<212> PRT
<213> Homo sapiens
<400> 3447
Met Gly Val Arg Ile Cys Gly Val Gln Ala Ser Cys Thr Cys Val His
Leu Cys Gly Val Trp Val Tyr Leu Asp Cys Gly Leu Arg Leu Pro Tyr
Arg Thr Leu Leu Pro Pro Pro Gln Gly Ile Thr Gly Pro Cys Ser
Ser Cys
     50
<210> 3448
<211> 27
<212> PRT
<213> Homo sapiens
<400> 3448
Met Asn Ile Pro Ile Tyr Val Ile Gly Tyr Leu Phe Leu Ser Ser Leu
Glu Leu Cys Thr Gln Thr Lys Thr Ile Ser Gly
             20
<210> 3449
<211> 12
<212> PRT
<213> Homo sapiens
<400> 3449
Gly Phe Leu Phe His Leu Leu His Phe Phe Tyr Phe
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<211> 43 <212> PRT <213> Homo sapiens

<400> 3450

Met Glu Ala Phe Leu His Leu Trp Pro Asp Gly Ser Leu Gly Asp Trp 1 5 10 15

Lys Ser Phe Ser Cys His Cys Tyr Trp Gly Trp Ala Gly Pro Thr Cys 20 25 30

Gln Glu Pro Arg Pro Gly Pro Lys Glu Ala Val 35 40

<210> 3451 <211> 101 <212> PRT <213> Homo sapiens

<400> 3451

Met Gln Gly Ser Gly Ser Gln Phe Arg Ala Cys Leu Leu Cys Leu Cys 1 5 10 15

Phe Ser Cys Pro Cys Ser Pro Gly Gly Pro Arg Trp Asn Ser Arg Gln
20 25 30

Gly Gly Arg Arg Phe Pro Lys Thr Cys Arg Ala Ile Ser Gln Asn Leu 35 40 45

Val Phe Lys Tyr Lys Thr Phe Cys Pro Val Arg Tyr Met Gln Pro His 50 55 60

Arg Ser Ser Leu Cys Leu His Phe Thr Ser Tyr Val Phe Ile Leu Ser 65 70 75 80

Thr Trp Gly Ser Leu Arg Thr Tyr Ser Thr Asp Leu Lys Lys Lys 85 90 95

Lys Lys Lys Lys 100

<210> 3452 <211> 21

<212> PRT

<213> Homo sapiens

<400> 3452

Met Asn Thr Pro Gly Leu Ser Leu Phe Leu Leu Arg Ile Ser Leu Leu 1 5 10 15

Leu Met Cys Gly Cys

20

<210> 3453 <211> 27

<212> PRT <213> Homo sapiens

<400> 3453

Met Thr Ile Ala Ile Val Ile Leu Ile Ile Phe Pro Thr Val Lys Asn 1 5 10 15

Leu Ala Leu Ser Ser Glu Ile Val Met Ala Leu 20 25

<210> 3454

<211> 37

<212> PRT

<213> Homo sapiens

<400> 3454

Met Phe Ser Arg Leu Tyr Lys Gln Arg Leu Leu Leu Leu Trp Tyr
1 5 10 15

Ser His Phe Gly Gly Gly Ser Arg Leu Glu Arg Ile Ser Phe Ala 20 25 30

Leu Lys Ser Arg Met 35

<210> 3455

<211> 47

<212> PRT

<213> Homo sapiens

<400> 3455

Met Met Val Pro Gly Gly Pro Ala Pro Leu Leu Cys Phe Leu Phe
1 10 15

Leu Leu Phe Trp Tyr Leu Gly Glu Leu Ile Thr Lys Ser Leu Leu Arg

Val Met Glu Ser Tyr Pro Ser Ile Pro Gln Ala Val Phe Gln Arg 35 40 45

<210> 3456

<211> 47

<212> PRT

<213> Homo sapiens

<400> 3456

Met Phe Lys Asp Ala Gly Leu Phe Leu Leu Trp Gly Pro Phe Pro Gly
1 5 10 15

Val Pro Val Ser Pro Ser Pro Gly Gly Ser Ala Pro Thr Arg Val Gly
20 25 30

Gly Ile Ser Ser Gln Arg Leu Ala Arg Pro His Leu Gly Glu Ala 35 40 45

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<210> 3457
<211> 26
<212> PRT
<213> Homo sapiens
<400> 3457
Met Thr Val Val Leu Leu Leu His Gly Ile Thr Val Tyr Tyr Val
                                                      15
Val Gly Lys Tyr Ser Leu Leu Asn Pro Thr
            20
<210> 3458
<211> 26
<212> PRT
<213> Homo sapiens
<400> 3458
Met Thr Val Val Leu Leu Leu His Gly Ile Thr Val Tyr Tyr Val
Val Gly Lys Tyr Ser Leu Leu Asn Pro Thr
            20
<210> 3459
<211> 26
<212> PRT
<213> Homo sapiens
<400> 3459
Met Thr Val Val Leu Leu Leu His Gly Ile Thr Val Tyr Tyr Val
Val Gly Lys Tyr Ser Leu Leu Asn Pro Thr
            20
<210> 3460
<211> 26
<212> PRT
<213> Homo sapiens
<400> 3460
Met Thr Val Val Leu Leu Leu His Gly Ile Thr Val Tyr Tyr Val
        5
Val Gly Lys Tyr Ser Leu Leu Asn Pro Thr
                   25
            20
<210> 3461
<211> 37
<212> PRT
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<213> Homo sapiens

<400> 3461

Met Gly Met Leu Phe Leu Leu Cys Ile His Arg Ser Leu Val Lys 1 5 10 15

Ala Asn Leu Pro Thr Gln Ile Ser Lys Val Val Ala Ile Lys Thr Asp 20 25 30

Thr Ser Gln Arg Lys 35

<210> 3462

<211> 19

<212> PRT

<213> Homo sapiens

<400> 3462

Met Ala Val Phe Leu Tyr Phe Asp Phe Cys Ile Ser Ile Leu Ile Phe 1 5 10 15

Leu Val Met

<210> 3463

<211> 90

<212> PRT

<213> Homo sapiens

<400> 3463

Pro Leu Leu Leu Ala Leu Leu Ser Leu Ala Leu Cys Arg Gly Arg Val

Val Arg Val Pro Thr Ala Thr Leu Val Arg Val Val Gly Thr Glu Leu
20 25 30

Val Ile Pro Cys Asn Val Ser Asp Tyr Asp Gly Pro Ser Glu Gln Asn 35 40 45

Phe Asp Trp Ser Phe Ser Ser Leu Gly Ser Ser Phe Val Glu Leu Ala 50 55 60

Ser Thr Trp Glu Val Gly Phe Pro Ala Gln His Trp Pro Phe Gly Ser 65 70 75 80

Ile Pro Val Gly Phe Ser Glu Ala Arg Trp 85 90

<210> 3464

<211> 40

<212> PRT

<213> Homo sapiens

<400> 3464

Met Gly Gln Val Val Arg Thr Ala Tyr Gln Glu His Val Val Phe Ser

1 10 15 Leu Phe Phe Lys Ile Ile Ile Leu Ser Cys Val Phe Ser Thr Ile Leu 20 25 Val Lys Ile Ala Lys Gln Phe Val <210> 3465 <211> 35 <212> PRT <213> Homo sapiens <400> 3465 Met Gly Thr Ile Arg Leu Leu Gln Ile Gly Leu Ser Leu Pro Phe Phe Thr Phe Leu Leu Ala Asn Gln Ser Gly Phe Arg Lys Pro Phe Val Ile 25 Cys Glu Lys 35 <210> 3466 <211> 32 <212> PRT <213> Homo sapiens <400> 3466 Met Glu Leu Met Asn Val Arg Thr Arg Leu Trp Arg Val Leu Ser Val Arg Phe Leu Gly Phe Ile His Val Val Val Tyr Asp Leu Leu Pro Cys 25 <210> 3467 <211> 34 <212> PRT

Lys Gly

<210> 3468 <211> 74 <212> PRT <213> Homo sapiens

<400> 3468

Met Asn Lys Thr Phe His Pro Leu Lys His Phe Pro Val Leu Arg Phe 5

Leu Phe Val Phe Val Val Ser Ser Pro Cys Tyr Pro Phe Cys Pro Phe

Ser Leu Thr Met Val Ile Trp Ser Leu Gly Ser Tyr Gln Ser Pro Arg 40

Asp Ile Leu Gln Ser Leu Ser Pro Phe Trp Val Asp Phe Ile Leu Phe

Tyr Phe Val Phe Phe Lys Lys Ile Thr Phe 70

<210> 3469 <211> 24 <212> PRT

<213> Homo sapiens

<400> 3469

Gly Thr Arg Ile Trp Gly Val Val Cys Leu Phe Leu Glu His Arg Val

Ala Trp Pro Cys Trp Asn Asp Lys 20

<210> 3470

<211> 38

<212> PRT

<213> Homo sapiens

<400> 3470

Met Lys Ile Lys Asn Val Ala Ala Val Ile Cys Leu Val Ile Pro Leu 5

Leu Leu Phe Phe Ser Leu Lys Lys Gln Lys Arg Gly Leu Gly Ile Phe 25

Ile Leu Met Gln Lys Phe 35

<210> 3471

<211> 59

<212> PRT

<213> Homo sapiens

<400> 3471

Met Leu Trp Ser Leu Ala Ser Tyr Ile Val Asn Leu Ala Val Lys Val

15 1 5 10 Leu Cys Leu Cys Lys Gly Arg Phe Val Leu Val Gln Asn Cys Pro Cys Leu Ser Lys Gln Val Cys Leu Ile Leu Ser Ser Ile Ser Gly Gly Tyr Cys Trp His Lys Leu Lys Val His Pro Leu Thr 55 <210> 3472 <211> 65 <212> PRT <213> Homo sapiens <400> 3472 Met Ile Gly Leu Ile Cys Leu Gly Met Gly Ser Ala Ala Leu Tyr Leu Leu Arg Leu Ala Leu Arg Ser Pro Asp Val Cys Trp Asp Arg Lys Asn 30 Asn Pro Glu Pro Trp Asn Arg Leu Ser Pro Asn Asp Gln Tyr Lys Phe Leu Ala Val Ser Thr Asp Tyr Lys Lys Leu Lys Lys Asp Arg Pro Asp 55 Phe 65 <210> 3473 <211> 31 <212> PRT <213> Homo sapiens <400> 3473 Met Cys Trp Ser Ser Ser Val Leu Phe Phe His Trp Pro Val Cys 10 Leu Ser Phe Val Tyr Tyr His Gln Ala Ile Thr Leu Asp Ser Trp 20 25 <210> 3474 <211> 35 <212> PRT <213> Homo sapiens <400> 3474 Met His Ile Cys Thr Phe Tyr Leu Ile Ile Leu Phe Trp Glu Ile Val

Ile Cys Cys Phe Val Cys Leu Leu Arg Glu Ala Arg Arg Ile Tyr

20

Lys Cys Glu 35 <210> 3475 <211> 36 <212> PRT <213> Homo sapiens <400> 3475 Met Ser Gln Thr Trp Pro His Pro Phe Ile Cys Tyr Cys Leu Ser Trp Phe Cys Thr Thr Thr Ala Glu Leu Asn Arg Cys Ser Arg Ser Phe Thr 25 Glu Lys Val Phe 35 <210> 3476 <211> 66 <212> PRT <213> Homo sapiens <400> 3476 Met Leu Lys Cys Gly Phe Met Lys Tyr Val Val Phe Leu Ser Val Leu Val Ser Phe Leu Glu Met Cys Lys Ser Glu Lys His Thr Asn His Lys Ser Gly Ile His His Lys Pro Lys 65 <210> 3477 <211> 24 <212> PRT <213> Homo sapiens <400> 3477 Met Asp Phe Thr Val Glu Gly Ser Ser Ile His Leu Trp Leu Leu Phe Asn Leu Val Leu Leu Asp Phe Val

<210> 3478

20

<210> 3479 <211> 35 <212> PRT <213> Homo sapiens

<400> 3479
Met Leu Phe Phe Asn Leu Phe Cys Tyr Leu Gly Ser Val Leu Ile Ser
10 15

Gly Gln Ile Phe Thr Val Leu Ser Gln Asn Ile Thr Lys Arg Arg Val 20 25 30

Thr Thr Thr

<210> 3480 <211> 30 <212> PRT <213> Homo sapiens <400> 3480

Phe Phe Phe Ser Ala Phe Gln His Leu Phe His Gly Met Ser Ala
1 5 10 15

Gln His Phe His Glu Leu Pro Gln Gly Tyr Ile Ser Thr Lys $20 \\ 25 \\ 30$

<210> 3481 <211> 111 <212> PRT <213> Homo sapiens <400> 3481 Trp Leu Leu Phe Arg

Trp Leu Leu Phe Arg Ser Leu Gln Arg Ala Pro Ser Trp Ser Phe Pro 1 5 10 15

Ser Asn Leu Gly Thr Lys Thr Ala Asp Leu Lys Gly Ala Ser Glu Leu 20 25 30

Pro Thr Pro Cys His Glu Cys Arg Glu Asp Asn Asp Gly Glu Gly His 35 40 45

Ala Arg Pro Gln Ser Gly Met Lys Pro Leu Thr Glu Gly Met Arg Lys 50 55 60

Asn Gly Thr Trp Leu Gln Ala Thr Ala Ala Thr Thr Arg Asp Cys Gly 65 70 75 80

Val Asn Pro Glu Glu Ala Asp Ser Ala Phe Ser Leu Leu Ala Thr Cys 85 90 95

Ser Phe Tyr Asp His Ala Leu His Leu Trp Glu Trp Glu Gly Asn 100 105 110

<210> 3482

<211> 32

<212> PRT

<213> Homo sapiens

<400> 3482

Lys Phe Gln Thr Ala Val Ile Ile Phe Tyr Phe Cys His Phe Ser Ser 1 5 10 15

Ser Asn Arg Gly Pro Met Gln Glu His Lys Cys Glu Ile Met Gly 20 25 30

<210> 3483

<211> 113

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3483

Asn Ser Ile Leu His Leu Pro Phe Trp Ile Glu Leu Leu Lys Ala Arg 1 5 10 15

Thr Val Leu Leu Thr Leu Ser Ser Ser Trp Cys Leu Ala Pro Arg Cys
20 25 30

Ser Arg Asn Ile Cys Met Ile Glu Leu Lys Leu Lys Val Ala Val Asn 35 40 45

Leu Phe Glu Asp Tyr Ser Gly Asn Ser Val Tyr Gln Arg Ile Lys Ser 50 55 60

Leu Lys Ser Glu Ser Thr Asn Ser Arg Arg Ser Trp Gly Met Val Pro 65 70 75 80

Ser Lys Asn Arg Lys Asp Gln Lys Ser Gln Glu Leu Thr Ala Tyr Gly 85 90 95 Gly Gly Gly Asn Asn Gly Leu Arg Arg Val Asp Pro Gln Gly Leu Xaa 100 105 110

Asn

<210> 3484

<211> 172

<212> PRT

<213> Homo sapiens

<400> 3484

Pro Val Cys Gly Gly Phe Gly Val Leu Trp Ala Trp Leu Cys Thr Gly
1 5 10 15

Arg Trp Thr Leu Leu Trp Ser Ser Ser Phe Pro Tyr Pro Gly Ser Asp 20 25 30

Val Gly Arg Leu Gly Gly Pro Val Ser Ser Pro Pro Phe Ala Leu Ser 35 40 45

Cys Pro Phe Pro Leu Ser Pro Gly Arg Cys Leu Ala Arg Leu Arg Pro 50 55 60

Pro Ser Arg Gln Pro Gly Cys Glu Leu Ser Leu Ser Leu Phe Pro Leu 65 70 75 80

Val Gly Lys Trp Pro Phe Pro Gln His Leu Leu Pro Gly Pro Arg Gly 85 90 95

Thr His Leu Phe Trp Ser Ser Ala Trp Pro Ser Val Ser Leu Gly Lys
100 105 110

Gly Lys Glu Gly Trp Thr Ala Leu Ile Arg Ala Gly Ser Val Cys Ser 115 120 125

Ser Gly Gln Pro Glu Cys Gln Arg Cys Thr Gly Met Trp Cys Val Ala 130 135 140

Pro Gly Pro Arg His Leu Cys Phe Gly Gly Phe Leu Pro Cys Leu His 145 150 155 160

Thr Cys Gln Gly Arg Gly Asp Ser Lys Val Gly Gly 165 170

<210> 3485

<211> 172

<212> PRT

<213> Homo sapiens

<400> 3485

Pro Val Cys Gly Gly Phe Gly Val Leu Trp Ala Trp Leu Cys Thr Gly
1 5 10 15

Arg Trp Thr Leu Leu Trp Ser Ser Ser Phe Pro Tyr Pro Gly Ser Asp
20 25 30

Val Gly Arg Leu Gly Gly Pro Val Ser Ser Pro Pro Phe Ala Leu Ser 35 40 45

Cys Pro Phe Pro Leu Ser Pro Gly Arg Cys Leu Ala Arg Leu Arg Pro 50 55 60

Pro Ser Arg Gln Pro Gly Cys Glu Leu Ser Leu Ser Leu Phe Pro Leu 65 70 75 80

Val Gly Lys Trp Pro Phe Pro Gln His Leu Leu Pro Gly Pro Arg Gly
85 90 95

Thr His Leu Phe Trp Ser Ser Ala Trp Pro Ser Val Ser Leu Gly Lys
100 105 110

Gly Lys Glu Gly Trp Thr Ala Leu Ile Arg Ala Gly Ser Val Cys Ser 115 120 125

Ser Gly Gln Pro Glu Cys Gln Arg Cys Thr Gly Met Trp Cys Val Ala 130 135 140

Pro Gly Pro Arg His Leu Cys Phe Gly Gly Phe Leu Pro Cys Leu His 145 150 155 160

Thr Cys Gln Gly Arg Gly Asp Ser Lys Val Gly Gly 165 170

<210> 3486

<211> 34

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3486

Met Gln Gly Ala Gly Lys Ala Leu His Glu Leu Leu Leu Ser Ala Gln 1 5 10 15

Xaa Gln Gly Cys Leu Thr Ala Gly Val Tyr Glu Ser Ala Lys Val Leu 20 25 30

Asn Val

<210> 3487

<211> 68

<212> PRT <213> Homo sapiens

<400> 3487

Met Ala Arg Pro Ala Glu Lys Leu Ser Thr Ala Gln Ser Ala Val Leu 1 5 10 15

Met Ala Thr Gly Phe Ile Trp Ser Arg Tyr Ser Leu Val Ile Ile Pro

20 25 30

Lys Asn Trp Ser Leu Phe Ala Val Asn Phe Phe Val Gly Ala Ala Gly 35 40 45

Ala Ser Gln Leu Phe Arg Ile Trp Arg Tyr Asn Gln Glu Leu Lys Ala 50 55 60

Lys Ala His Lys 65

<210> 3488

<211> 23

<212> PRT

<213> Homo sapiens

<400> 3488

Lys Ser Phe Cys Leu Asp Leu Phe Ser Cys Ser Ile Phe Cys Lys Met 1 5 10 15

Tyr Tyr Ile Val Ser Leu Leu 20

<210> 3489

<211> 65

<212> PRT

<213> Homo sapiens

<400> 3489

Met Met Phe Ile Thr Leu Pro Leu Pro Leu Gln Ser Tyr Pro Ala Leu
1 5 10 15

Leu Ile Leu Pro Gln Gln Thr Asp Ala Pro Gly Asn Asn Val Gly Val 20 25 30

Ser Thr Lys Lys Phe Arg Arg Lys Tyr Ile His Val Ile Gln Asn 35 40 45

Cys Tyr Leu Tyr His Lys Ile Val Lys Ser Leu Cys Ser Asp Phe Leu 50 55 60

Leu 65

<210> 3490

<211> 19

<212> PRT

<213> Homo sapiens

<400> 3490

Met Asp Pro Arg Pro Leu Gln Ala Pro Ile Ala Ile Gly Ser Leu Lys

1 5 10 15

Leu Ser Gly

```
<210> 3491
<211> 34
<212> PRT
<213> Homo sapiens
<400> 3491
Met Phe Ser Phe Ile Ser Val Leu Phe Cys Leu Phe Leu Leu Val Ser
Leu Arg Thr Ile His Leu Leu Phe Leu His Trp Leu His Leu Ser Cys
Asp Ile
<210> 3492
<211> 35
<212> PRT
<213> Homo sapiens
<400> 3492
Met Phe Ser Phe Ile Ser Val Leu Phe Cys Leu Phe Leu Leu Val Ser
                                      10
Phe Glu Asn Asn Thr Pro Ser Ile Pro Ser Phe Gly Tyr Thr Phe Pro
Cys Asp Ile
         35
<210> 3493
<211> 35
<212> PRT
<213> Homo sapiens
<400> 3493
Met Phe Ser Phe Ile Ser Val Leu Phe Cys Leu Phe Leu Leu Val Ser
                  5
Phe Glu Asn Asn Thr Pro Ser Ile Pro Ser Phe Gly Tyr Thr Phe Pro
Cys Asp Ile
         35
<210> 3494
<211> 14
<212> PRT
<213> Homo sapiens
<400> 3494
Met Ala His Trp His Val Phe Tyr Val Phe Ser Cys His Ser
```

Junta

1 5 10

```
<210> 3495
<211> 32
<212> PRT
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<213> Homo sapiens

<400> 3495

Met Trp Thr Ser Ser Ser Arg Gly Trp Gly Ser Phe Leu Asn Val Cys
1 5 10 15

Ser Leu Leu Pro Ala Trp Pro Ser Met Gln Thr Leu Trp Leu Thr Ser 20 25 30

<210> 3496 <211> 47 <212> PRT

<213> Homo sapiens

<400> 3496

Gly Leu Ser Arg Pro Thr Ser Ser Ser Pro Trp Pro Pro Gly Ala Met
1 10 15

Leu Leu Pro Leu Gly Ser Leu Cys Gly Pro Ser Ser Cys Leu Pro Val $20 \hspace{1cm} 25 \hspace{1cm} 30$

Ala Ser Val Asp Gln Ala Arg Ala Ser Gly Gln Pro Phe Gln Ala 35 40 45

<210> 3497

<211> 19

<212> PRT

<213> Homo sapiens

<400> 3497

Met Gly Ala Asn Ile Leu Leu Ser Ile Ala Thr Ile Thr Ile Gly Trp
1 5 10 15

Leu Trp Ile

<210> 3498

<211> 31

<212> PRT

<213> Homo sapiens

<400> 3498

Met Lys Phe Thr Leu Met Leu Val Met Ser Leu Glu Leu Ser Leu Arg 1 5 10 15 Lys Val Leu Ser Ser Val Tyr Pro Leu Gly Lys Tyr Asn His Glu 20 25 30

```
<210> 3499
<211> 31
<212> PRT
<213> Homo sapiens
<400> 3499
Met Asp Leu Ser Ser Pro Thr Ile Leu Ile Ile Phe Ser Gly Cys Val
Ser Ala Phe Leu Cys His Ile Lys His Cys Ile Arg Asn Gln Lys
                                 25
<210> 3500
<211> 39
<212> PRT
<213> Homo sapiens
<400> 3500
Met Ile Met Met Arg Arg Arg Lys Ile Leu Ile Phe Leu Lys Ile Leu
Ile Leu Met Lys Met Lys Gly Asp Cys Leu Glu Val Lys Asn Leu Ser
                                 25
Gln Val Lys Val Pro Glu Ile
         35
<210> 3501
<211> 10
<212> PRT
<213> Homo sapiens
<400> 3501
Met Ser Cys Ser Phe Leu Glu Phe Ser Ile
                5
<210> 3502
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210/ 3502

<211> 17

<212> PRT

<213> Homo sapiens

<400> 3502

Thr Ile Leu Phe Ser Leu Leu Leu Gly Phe Ser Ile Thr Lys Lys Gln
1 5 10 15

Ile

<213> Homo sapiens

```
<210> 3503
<211> 17
<212> PRT
<213> Homo sapiens
<400> 3503
Thr Ile Leu Phe Ser Leu Leu Gly Phe Ser Ile Thr Lys Lys Gln
Ile
<210> 3504
<211> 29
<212> PRT
<213> Homo sapiens
<400> 3504
Met Ala Phe Cys Phe Cys Phe Phe Leu His Pro Ser Glu Thr Ala Pro
Leu Cys Gly Arg Gln Gly Met Gly Phe Ser Pro Gly His
<210> 3505
<211> 41
<212> PRT
<213> Homo sapiens
<400> 3505
Met Ala Leu Thr Ser Val Leu Leu Phe Ile Leu Leu Phe Phe Gly Val
Ile Leu Met Cys Leu Leu Arg Ala Phe Tyr Leu Pro Asp Phe Ser Trp
             20
Leu Thr Phe Gly Leu Tyr Phe Ala Pro
         35
<210> 3506
<211> 15
<212> PRT
<213> Homo sapiens
<400> 3506
Met Gln Ser Leu Phe Tyr Ser Leu Leu Leu Ile Arg Val Ser Gly
                  5
                                     10
                                                          15
<210> 3507
<211> 35
<212> PRT
```

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<400> 3507
Met Ala Pro Pro Gly Leu Ala Val Phe Leu Leu Trp Val Leu Met Pro
                                     10
Pro Gly Pro Thr Ala Ser Ser Gln Pro Arg Ala Ala Pro Pro Val
                                 25
Ser Phe Ser
        35
<210> 3508
<211> 26
<212> PRT
<213> Homo sapiens
<400> 3508
Met Leu Thr Ser Gly Phe Ile Phe Gln Lys Ile Trp Leu Cys Gly
                            10
Glu Trp Thr Met Leu Gly Gln Lys Thr Lys
<210> 3509
<211> 33
<212> PRT
<213> Homo sapiens
<400> 3509
Met Asn Ile Leu Ile Lys Arg Ile Leu Val Leu Ala Gln Leu Met His
Ile Ser Asp Ser His Ile Cys Cys Ile Asn Trp Phe Asn Thr Phe Gly
Thr
<210> 3510
<211> 3
<212> PRT
<213> Homo sapiens
<400> 3510
Leu Val Tyr
 1
<210> 3511
<211> 31
<212> PRT
<213> Homo sapiens
<400> 3511
Met Val Leu Leu Ile Leu Phe Ile His Cys Pro Leu Val Arg Cys Tyr
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65

1 5 10 Arg Ile Leu Met Asn Ala Phe Cys Ile Val Val Phe His Thr Ser 25 <210> 3512 <211> 38 <212> PRT <213> Homo sapiens <400> 3512 Met Trp Tyr Leu Thr Phe Ser Lys His Phe Leu Leu Gly Phe Pro 10 Val Pro Phe Ser Asp Gly Glu Leu Thr Val Pro Ile Glu Ile Phe Ile Phe Ile Thr Ile Leu Thr 35 <210> 3513 <211> 33 <212> PRT <213> Homo sapiens <400> 3513 Met Arg Gln Met Ser Leu Asn Trp Lys Asp Ile Leu Thr Leu Leu Cys Val Leu Thr Ala Cys Phe Trp Thr Ser Thr Glu Pro Ala Leu Leu Met 20 Gln <210> 3514 <211> 80 <212> PRT <213> Homo sapiens <400> 3514 Met Trp Gly Arg Arg Gln Cys Ala Leu Trp Met Val Phe Thr Ser Thr Ala His Thr Thr Leu Gly Ser Arg Pro Ser Thr Lys Gln Glu Ser Ala 25 Arg Thr Ala Arg Pro Trp Ser Ser Lys Arg Leu Arg Val Arg Pro Phe 35 40

Ser Ser Ile Pro Gln Ser Glu Asn Cys Val Ala Ser Lys Val Ala Gly

Lys Pro Gly Gly Asn Pro Thr Thr Ala His Ile Pro Glu Val Phe Pro

70

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<210> 3515
<211> 35
<212> PRT
<213> Homo sapiens
<400> 3515
Met Val Glu Pro Gly Gly Ala Thr Met Gly Ala Gly Pro Gly Ser Cys
Ile Leu Leu Ser Leu Leu Pro Leu Ala Arg Thr Cys Leu Ser Gly Asp
Phe Gly Leu
        35
<210> 3516
<211> 21
<212> PRT
<213> Homo sapiens
<400> 3516
Met Ile Met Gly Ala Leu Ile Arg Thr Leu Asp Thr Phe Val Ile Val
Phe Asn Ile Cys Ile
             20
<210> 3517
<211> 38
<212> PRT
<213> Homo sapiens
<400> 3517
Met His Ile Ser Tyr Leu His Ser Ser Tyr Val Ser Gly Ala Ile Val
Trp Leu Leu Ser Leu Ser Val Trp Phe His His Gln Ser Ile His Pro
                                  25
Tyr Ile Lys Leu Lys Ile
         35
<210> 3518
<211> 83
<212> PRT
<213> Homo sapiens
<400> 3518
Met Gln Phe His Ala Ser Val Pro Ser Leu Met Leu Phe Leu Pro Thr
```

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Gly	Met	Pro	Ser 20	Pro	Ala	Pro	Pro	Ala 25	Leu	Ser	Ala	Trp	Gln 30	Val	His
Leu	Ser	Arg 35	Ser	Pro	Gln	Arg	Pro 40	Pro	Pro	Pro	Gly	Arg 45	Gln	Pro	Let
Cys	Pro 50	Ser	Pro	Pro	Gly	Tyr 55	Leu	Cys	Thr	Leu	Ser 60	Met	Leu	Leu	Leu
Trp 65	His	Leu	Ser	His	Суs 70	Ile	Leu	Leu	Val	Tyr 75	Met	Phe	Val	Ser	Pro 80
Ser	Arg	Leu													
<21 <21	<210> 3519 <211> 98 <212> PRT <213> Homo sapiens														
	0> 35 Thr		Arg	Leu 5	Arg	Arg	Leu	Ser	Gly 10	Cys	Arg	Cys	Thr	Pro 15	Gl
Leu	Gly	Ala	Ser 20	Leu	Pro	Gly	Pro	Gly 25	Gly	Ser	Trp	Val	Ala 30	Trp	Le
Gln	Gly	Lys 35	Thr	Gly	Ala	Arg	Thr 40	His	Val	Ser	Pro	Ala 45	Gly	Val	Gl
Gly	Ala 50	Ala	Ala	Leu	Gly	Ser 55	Gly	Val	Arg	Pro	Trp 60	Gly	Met	Phe	Pr
Met 65	Val	Gly	Ser	Leu	Ala 70	Arg	Pro	Glu	Lys	Thr 75	Cys	Ser	Arg	Ala	Se:
Ile	Arg	Cys	Pro	Leu 85	Glu	Glu	Ala	Glu	Leu 90	Phe	Glu	Gly	Cys	Суs 95	Ly

Val Arg

<210> 3520 <211> 36

<212> PRT

<213> Homo sapiens

<400> 3520

Met Leu Arg Val Asp Leu Phe Thr Phe Ser Phe Asn Phe Thr Leu Thr 1 5 10 15

Glu Phe Phe Phe Pro Asn Gln Thr Asn Ser Leu Ala Ser Val Ala Phe 20 25 30

Ser Ser Leu Arg

35

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<210> 3521
<211> 14
<212> PRT
<213> Homo sapiens
<400> 3521
Asn Gly Ile Ala Ala Leu Ile Trp Gln Leu Cys Leu Ala Phe
<210> 3522
<211> 24
<212> PRT
<213> Homo sapiens
<400> 3522
Met Arg Pro Ile Gly Pro Ser Glu Pro Phe Cys Gly Cys Thr Trp Gly
                                      10
Pro Leu Trp Thr Met Gly Cys Gly
<210> 3523
<211> 49
<212> PRT
<213> Homo sapiens
<400> 3523
Met Pro Trp Gly Asn Cys Tyr Val Ile Ser His Leu Gln Gly Ser Ile
Leu Ile Gln Phe Leu Leu Asn Ile Gln Leu Gly Cys Arg Asp Ile Asp
Ile Ser Phe Glu Leu Ser Glu Phe Phe Ile Phe Ile Ser Lys Asn Leu
         35
Ile
```

Phe Ala Val Leu Val Glu Ala Glu Val Trp Ala Ala Lys Ile Trp Met 35 40 45

<210> 3525

<211> 41

<212> PRT

<213> Homo sapiens

<400> 3525

Met Cys Arg Ile His Leu Asn Ile Cys Lys Lys Leu Gln Glu Glu 1 5 10 15

Leu Phe Phe Val Phe Leu Phe Leu Phe Val Leu Phe Phe Cys His Phe 20 25 30

Thr Asn Trp Pro His Asp Arg Leu Arg 35 40

<210> 3526

<211> 32

<212> PRT

<213> Homo sapiens

<400> 3526

Met Gln Leu Cys Ser Gly Val Leu Asn Pro Gly Leu Ile Ser Asn Leu 1 5 10 15

Phe Ser Ser His Ser Ser Gln Leu Phe Cys Ala Val His Leu Gly Ser 20 25 30

<210> 3527

<211> 36

<212> PRT

<213> Homo sapiens

<400> 3527

Met His Gly Leu Val Cys Phe Leu Gly Phe Ser Val Ser Leu Ser Cys 1 5 10 15

Phe Ala Phe Gln Arg Ser Cys Ser Tyr Gln Gly Ile Thr Gln Pro Leu 20 25 30

Lys Leu Ser Ser

35

<210> 3528

<211> 56

<212> PRT

<213> Homo sapiens

<400> 3528

Met Arg Ile Ala Val Leu Leu Met Thr Tyr His Ser Ser Cys Met Gly
1 5 10 15

Lys Gln Ser Arg Lys Gln Cys Pro Lys Trp Lys Lys Asp Thr His Thr 20 25 30

Glu Gln Asn Ser Ser Trp Ser Cys Ser Trp Ser Cys Gln Thr Leu Pro 35 40 45

Asp Ala Leu Ser Lys Val Lys Ile 50 55

<210> 3529

<211> 23

<212> PRT

<213> Homo sapiens

<400> 3529

Met Gly Leu Phe Leu Leu Phe Leu Leu Arg Val Gly Val Gly Cys Val 1 5 10 15

Ile Cys Lys Tyr Phe Cys Ala 20

<210> 3530

<211> 136

<212> PRT

<213> Homo sapiens

<400> 3530

Met Ile Gln Asn Ile Leu Phe Leu Ser Ala Phe Phe Trp Gly Glu Gly
1 5 10 15

Pro Ile Ile Pro Thr Leu Pro His Thr Val Lys Ser Cys Pro Leu Trp 20 25 30

Glu Pro Gly Ser Phe Pro Gln Asn Val Ser Arg Ser Leu Glu Asp Asp 35 40 45

Pro Ser Ser Thr Pro His Ala Cys Ser Met Gly Gln Cys Pro Gln Leu 50 55 60

Pro Ala Phe Pro Leu Thr Met Glu Pro Gly Thr Pro Gly Lys Pro Gly 65 70 75 80

Ala Pro Arg Arg Pro Arg Ser Ser Arg Val Ala Ser Leu Ser Cys Arg 85° 90 95

Ala Arg Trp Pro Asn Arg Pro His Gly Thr Thr Leu Ala Arg Ser Thr 100 105 110

Arg His Ala Gly Ser Pro Leu Leu Ser Cys Leu Ala Leu Leu Ser Cys 115 120 125

```
Ser Ser Trp Ile Thr Leu Gln Arg
<210> 3531
<211> 33
<212> PRT
<213> Homo sapiens
<400> 3531
Met Pro Leu Ser Tyr Ser Phe Cys Val Leu Phe Ile Val Trp Cys Ile
His Ser Trp Lys Ile Cys Asn Ser Cys Val Ser Arg Ile Cys Val Phe
Thr
<210> 3532
<211> 33
<212> PRT
<213> Homo sapiens
Met Pro Leu Ser Tyr Ser Phe Cys Val Leu Phe Ile Val Trp Cys Ile
His Ser Trp Lys Ile Cys Asn Ser Cys Val Ser Arg Ile Cys Val Phe
Thr
<210> 3533
<211> 20
<212> PRT
<213> Homo sapiens
<400> 3533
Met Leu Cys Val Cys Leu Ser Thr Ala Ile Ser Ala Thr Phe Ser Leu
                  5
Met His Val Glu
             20
<210> 3534
<211> 8
<212> PRT
<213> Homo sapiens
<400> 3534
Met Ser Ala Trp Cys Asn Phe Tyr
```

1 5

```
<210> 3535
<211> 35
<212> PRT
<213> Homo sapiens
<400> 3535
Met Cys Ser Gly Asn Gly Ala Ala Cys Ile Cys Arg Ala Gln Val Leu
Leu Ala Leu Cys Cys Gly Ile Cys Thr Ser Pro Ala Ile Cys Cys Pro
                                 25
Trp Ala Thr
         35
<210> 3536
<211> 13
<212> PRT
<213> Homo sapiens
<400> 3536
Met Gly Ser Cys Leu Leu Pro Asn Val Tyr Phe Ser Cys
<210> 3537
<211> 32
<212> PRT
<213> Homo sapiens
<400> 3537
Met Met Phe Leu Ile Ile Met Val Ile Thr Thr Val Leu Phe Ser Asp
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Glu Ser Val Arg Ser Pro Gly Thr Cys Glu Tyr Val Val Phe Asp Leu

```
<210> 3538

<211> 14

<212> PRT

<213> Homo sapiens

<400> 3538

Phe Phe Thr Phe Pro Ser Ala Ala His Thr Ala Ile Gln Gln

1 5 10
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<210> 3539

```
<211> 31
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 3539
Met Cys Met Cys Val His Val Cys Ala Cys Met Cys Val Pro Met Cys
Met Cys Ala Cys Arg Cys Xaa Cys Val Cys Leu Cys Val Cys Thr
```

<210> 3540 <211> 187 <212> PRT <213> Homo sapiens <400> 3540 Met Val Asp Ile Leu Arg Ala Leu Glu Lys Leu Arg Lys Leu Arg Lys

Glu Ala Ala Arg Lys Gly Val Cys Pro Pro Ala Ser Ala Asp Glu

Thr Phe Thr His His Leu Gln Arg Leu Arg Lys Leu Ile Lys Lys Arg

Ser Glu Leu Tyr Glu Ala Glu Glu Arg Ala Leu Arg Val Met Leu Glu

Gly Glu Glu Glu Glu Arg Lys Arg Glu Leu Glu Lys Lys Gln Arg

Lys Glu Lys Glu Lys Ile Leu Leu Gln Lys Arg Glu Ile Glu Ser Lys

Leu Phe Gly Asp Pro Asp Glu Phe Pro Leu Ala His Leu Leu Glu Pro 105

Phe Arg Gln Tyr Tyr Leu Gln Ala Glu His Ser Leu Pro Ala Leu Ile 115 120

Gln Ile Arg His Asp Trp Asp Gln Tyr Leu Val His Pro Ile Ile Pro 140 135

Lys Ala Thr Ser Phe Pro Lys Asp Gly Ser Phe Pro Arg Ser Pro Ala 160 145 150

Thr Thr Ser Gly Gln Leu Leu Ser Cys Ile Ser Lys Asp Ala Pro 165 170

Gly Val Trp Ser Ser Gln Arg Ser Phe Gln Leu 180 185

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<210> 3541
<211> 25
<212> PRT
<213> Homo sapiens
<400> 3541
Met Glu Ser Leu Cys Cys Arg Val His Thr Ser Arg Ile Cys Leu Met
                                      10
Asn Gly Val Cys Leu Leu Tyr Trp Ser
             20
<210> 3542
<211> 21
<212> PRT
<213> Homo sapiens
<400> 3542
Met Lys Asp Leu Leu Ser Gln Ala His Glu Thr Ser Ser Glu Glu Ala
Val Leu Phe Leu Tyr
             20
<210> 3543
<211> 27
<212> PRT
<213> Homo sapiens
Leu Met Leu Thr Ala Arg Phe Val Gln Cys Thr Val Val Asp Pro Ser
                  5
Ala Gly Phe Leu Ile Trp Ile Gln Ala Arg Ala
              20
<210> 3544
<211> 6
<212> PRT
<213> Homo sapiens
<400> 3544
Leu Tyr Leu Cys Gly Ser
                   5
<210> 3545
<211> 93
<212> PRT
<213> Homo sapiens
<400> 3545
Gln Asn Thr Leu Thr Arg Phe Met Arg Leu Pro Leu Ile Ser Val Ala
```

1				5					10					15	
Leu	Val	Gln	Gly 20	Trp	Ala	Leu	Gly	Gly 25	Gly	Ala	Glu	Phe	Thr 30	Thr	Ala
Cys	Asp	Phe 35	Arg	Lėu	Met	Thr	Pro 40	Glu	Ser	Lys	Ile	Arg 45	Phe	Val	His
Lys	Glu 50	Met	Gly	Ile	Ile	Pro 55	Ser	Trp	Gly	Gly	Thr 60	Thr	Arg	Leu	Val
Glu 65	Ile	Ile	Gly	Ser	Arg 70	Gln	Ala	Leu	Lys	Val 75	Leu	Ser	Gly	Ala	Leu 80
Lys	Leu	Gly	Phe	Lys 85	Lys	Cys	Ser	Lys	His 90	Arg	Asn	Gly			
<210> 3546 <211> 12 <212> PRT <213> Homo sapiens <400> 3546															
			Val	Val 5	Val	Val	Val	Leu	Ala 10	Phe	Asn				
<210> 3547 <211> 13 <212> PRT <213> Homo sapiens															
	0> 3 Tyr		Phe	Gln 5		Thr	Leu	Ser	Phe 10	Cys	Cys	Phe			
<210> 3548 <211> 39 <212> PRT <213> Homo sapiens															
<40 Pro		548 Ser	Leu	Pro		Phe	Ser	Asn	Cys		Tyr	Val	Ser	Ile 15	Val
Pro	Ser	Pro	His 20		Gln	Glu	Ala	Ala 25		Ile	Leu	Glu	Ile 30		Ala
Trp	Ser	Ser 35	Glu	Thr	Leu	Pro	•								
<21	.0> 3 .1> 6 .2> F	52													

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<213> Homo sapiens
<400> 3549
Met Thr Ile Leu Gln Val Val Ala Leu Pro Leu Tyr Leu Tyr Ile Ile
Leu Thr Trp His Leu Trp Pro Phe Leu Cys Ser Tyr Val Ser Val Phe
Pro Gly Arg Val Tyr Ala Leu Glu Cys Gln Glu Leu Val Ser Leu Val
Phe Phe Ile Tyr Leu Ala Tyr Lys Ile Leu Leu Arg Ile Trp
<210> 3550
<211> 30
<212> PRT
<213> Homo sapiens
<400> 3550
Met Glu Phe Phe Glu Thr Leu Gly Leu Asn Asp Ser Ser Glu Leu Ser
Leu Leu Phe Asp Thr Lys Glu Trp His Val Trp Gly Phe Leu
<210> 3551
<211> 24
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 3551
Met Ala Cys Lys Leu Lys Leu Phe Thr Ile Trp Cys Phe Thr Gly Lys
Ala Leu Pro Thr Ser Xaa Phe Asn
             20
<210> 3552
<211> 45
<212> PRT
<213> Homo sapiens
<400> 3552
Met Leu Trp Glu Val Cys Ser Phe Ala Phe Cys Asn Ile Ala Cys Cys
                                      10
Cys Ser Leu Phe Gly Phe Val Pro Pro Leu Ser Ala Val Thr Leu Thr
```

20

Ala Lys Ser Ala Thr Ser Leu Leu Arg Pro Ala Arg Pro 35 40 . 45

<210> 3553

<211> 136

<212> PRT

<213> Homo sapiens

<400> 3553

Met Ser Leu Ser Lys Ser Glu Arg Val Leu Cys Leu Trp Leu Ala Leu 1 5 10 15

Pro Thr Thr Arg Pro Ala Leu Cys Arg His Val Ser Leu Cys Pro Thr 20 25 30

Pro Lys Gly Glu Ile Gln His Pro Thr Ala Gln Gln Ala Ala Cys Gln 35 40 45

Gln His Pro Pro Leu Gly Ser Pro Arg Cys Ser Pro Glu Pro His Arg 50 55 60

Ala Leu Ile Thr Phe Ser Ala Ser Gly Asn Gln Ala Leu Ala Ser Leu 65 70 75 80

Ser Pro Pro Pro Leu Leu Ser Pro Phe Pro Pro Asp Pro Gln Asp Leu 85 90 95

Phe Pro Trp Leu Gln Tyr Ser Leu Ala Tyr Arg Ser Pro Lys Ala Val 100 105 110

Leu Gly Met Pro Cys Pro Ser Pro Ser Asn Arg Pro Arg Ala Glu Phe 115 120 125

Asp Ile Lys Leu Ile Asp Thr Val 130 135

<210> 3554

<211> 19

<212> PRT

<213> Homo sapiens

<400> 3554

Met Pro Leu Leu Phe Met Ser Leu Thr Leu Leu Trp Gln Ser Gly Cys 1 5 10 15

Ser Arg Lys

<210> 3555

<211> 26

<212> PRT

<213> Homo sapiens

<400> 3555

```
10
His Thr Ser Trp Asp Gly Pro Gly Glu Arg
<210> 3556
<211> 14
<212> PRT
<213> Homo sapiens
<400> 3556
Met Arg Ser Leu Pro Phe Tyr Phe Leu Leu Cys Cys Phe Leu
<210> 3557
<211> 4
<212> PRT
<213> Homo sapiens
<400> 3557
Met Arg Lys Ala
 1
<210> 3558
<211> 8
<212> PRT
<213> Homo sapiens
<400> 3558
Met Cys Ala Ala Glu Pro Tyr Phe
                  5
<210> 3559
<211> 36
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
 <222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (34)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <400> 3559
 Met Val Asn Phe Phe Cys Phe Val Leu Leu Arg Arg Val Ser Ser Leu
                                      10
 Xaa Lys Lys Lys Lys Ser Glu Arg His Glu Arg Cys Lys Glu Ala
```

Ala Val Pro His Pro Asn Leu Ile Trp Asn Cys Ser Ser His Asn Ser

20 25 30

Gln Xaa Trp Leu 35

<210> 3560

<211> 21

<212> PRT

<213> Homo sapiens

<400> 3560

Met Ser Phe His Met Ile Val Ile Leu Leu Gln Ser Ile Thr Lys Asp 1 5 10 15

Ser Thr Ile Leu Val 20

<210> 3561 <211> 26

<212> PRT

<213> Homo sapiens

<400> 3561

Met Gln Ala Gln Phe Lys Thr Pro Ala Tyr Ser Lys Val Ser Val Leu 1 5 10 15

Ile Leu Thr His Cys Ile Leu Trp Val Trp 20 25

<210> 3562

<211> 26

<212> PRT

<213> Homo sapiens

<400> 3562

Met Leu Asn Val Lys His Met Pro Asn Ile Ser Leu Val Leu Phe Val 1 5 10 15

Thr Phe Phe Pro Gln Tyr Phe Arg Val Ile 20 25

<210> 3563

<211> 30

<212> PRT

<213> Homo sapiens

<400> 3563

Met His Ser Arg Lys Pro Val Arg Val Leu Ser Ile Leu Gln Leu Val 1 5 10 15

Leu Gly Leu Tyr Pro Ser Cys Lys Asp Val Met Pro Gln Lys 20 25 30

```
<210> 3564
<211> 21
<212> PRT
<213> Homo sapiens
<400> 3564
Met Gln Arg Phe Val Gly Leu Cys Gly Asn Ile Ile Ile Trp Pro
Cys Val Ala Met Ser
<210> 3565
<211> 9
<212> PRT
<213> Homo sapiens
<400> 3565
Phe His Leu Tyr Ser Leu Leu Val
      5
<210> 3566
<211> 25
<212> PRT
<213> Homo sapiens
<400> 3566
Met Ala Gln Glu Ser Leu Ser Pro Leu Gly Leu Leu Ile Leu Val Cys
Ala Glu Pro Ser Val Cys Ala Glu Gly
<210> 3567
<211> 34
<212> PRT
<213> Homo sapiens
<400> 3567
Met Lys Cys Ile Ser Met Ala Ile Leu Phe Trp Ile Tyr Gly Gly Ser
Arg Ala Phe Leu Thr Leu Lys Val Val Cys Val Arg Glu Lys Ala Phe
Thr Ala
<210> 3568
<211> 21
<212> PRT
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<211> 34

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<213> Homo sapiens
<400> 3568
Phe Leu Cys Met Phe Phe Leu Gln Thr Leu Gln Arg Cys Asp Tyr Thr
Ile Val Tyr Lys Gln
             20
<210> 3569
<211> 21
<212> PRT
<213> Homo sapiens
<400> 3569
Phe Leu Cys Met Phe Phe Leu Gln Thr Leu Gln Arg Cys Asp Tyr Thr
                                     10
Ile Val Tyr Lys Gln
             20
<210> 3570
<211> 78
<212> PRT
<213> Homo sapiens
<400> 3570
Met Gln Phe Leu Lys Asn Val Arg Cys Phe Thr Phe Ser Phe Ser His
Leu Val Phe Asn Ile Trp Cys Val Phe Tyr Thr Ser Ser Thr Ser Gln
                                 25
Phe Thr Pro Ala Thr Phe Lys Met Leu Ser Ser Arg Met Gln Leu Val
                             40
Gln Pro Tyr Leu Gly Pro Val Ser Ala Trp Gly Arg Ala Gly Glu Leu
Ser Cys Val His Gly Gly Pro Gly Glu Pro Pro Val Leu Cys
 65
<210> 3571
<211> 11
<212> PRT
<213> Homo sapiens
<400> 3571
Met Ser Ser Leu His Thr Thr Ile Thr Val Phe
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<210> 3572
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<212> PRT <213> Homo sapiens <400> 3572 Met Gly Leu Thr Gly Pro Phe Thr Phe Ile Tyr Leu Leu Phe Glu Ile 10 Leu Ser Gly Gln Thr Thr Glu Pro Gln Ile Asn Tyr Phe Leu Thr Lys 25 Phe Trp <210> 3573 <211> 28 <212> PRT <213> Homo sapiens <400> 3573 Met Arg Phe Ser Lys Asn Val Ile Trp Val His Asn Phe Ile Leu Leu Trp Ser Asp Asn Ser Pro Cys Glu Ile Ser Ala Phe <210> 3574 <211> 16 <212> PRT <213> Homo sapiens

<210> 3575 <211> 73

Asp Pro Pro Cys Pro Ala Ser Ile Pro Thr Ile Leu Tyr Ser Thr Leu

Asp Ser Val Cys Pro Ala Ser Leu Cys 65 70

<210> 3576

<211> 91

<212> PRT

<213> Homo sapiens

<400> 3576

Met Leu Arg Ala Leu Ser Cys Leu His Ser Leu Val Gly Cys Ala Ala 1 5 10 15

Gly Ser His Cys Met Arg Asn Gly Ser Asn Leu Ser Val Lys Ser Leu 20 25 30

Gln Thr Ser Gly Arg Ser Gly Ser Gln Trp Asn Asn Tyr Ser Gly Met 35 40 45

Arg Leu Gln Val Pro Leu Leu Pro Glu Leu His Ser Arg Leu Cys Glu 50 60

Gly Glu Lys Gly Ile His Leu Arg Ser Phe His Gly Arg His Arg Tyr 65 70 75 80

Phe Asn Val Ala Ile Pro Ser Asn Arg Val Ser 85 90

<210> 3577

<211> 32

<212> PRT

<213> Homo sapiens

<400> 3577

Met Gly Leu Lys Gly Ala Ala Leu Cys Leu Phe Ile Thr Trp Val His 1 5 10 15

Cys Ile Leu Val Val Thr Gly Phe Pro Val Tyr Ser Ser Pro Thr Gln 20 25 30

<210> 3578

<211> 39

<212> PRT

<213> Homo sapiens

<400> 3578

Met Glu Ile Gly Phe Phe Leu Leu Phe Phe Leu Leu Arg Tyr Thr Ala 1 5 10 15

Asn Pro Glu Thr Thr Thr Phe Leu Asn Ser Ser Ser Leu Ala Val Gln 20 25 30

Thr Ile Phe Cys Phe Gln Met

35

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<210> 3579
<211> 29
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<213> Homo sapiens
<400> 3579
Met Phe Leu Asn Arg Leu Lys Leu Leu Tyr Gly Phe Trp Leu Ile Ile
Ile Asn Thr Val Asn Tyr Thr Arg Gln Pro Thr Arg Ser
<210> 3580
<211> 62
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 3580
Met Leu Gln Lys Glu Val Arg Gln Gln Ile Leu Ile Val Leu Met Thr
Phe Lys Xaa Thr Tyr Ile Arg Glu Ser Leu Phe Ser Thr Phe Phe Arg
Gln Asn Leu Leu Ser Leu His Asn Ile Tyr Gln Val Phe Ser Gly
Met Glu Gly Glu Lys Ser Lys Leu Thr Leu Leu Asn Ile Phe
<210> 3581
<211> 76
<212> PRT
<213> Homo sapiens
<400> 3581
Met Asn Ser Glu Val Glu Cys Met Pro Phe Thr Ser Val His Ile Leu
                                     10
Pro Asp Phe Leu Gly Cys Leu His Thr Ser Leu Thr Phe Leu Leu
                                 25
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Leu Asn Leu Pro Leu Cys Met Val Leu Leu Pro Pro Phe Asn Arg Leu

Asp Val Leu Thr Ser Ala Tyr Cys Ile Leu His Pro His Thr Ser Cys

Gln Val Phe Pro Tyr Thr Gly Ser Ile Leu His Ser 65 70 75

<210> 3582

<211> 70

<212> PRT

<213> Homo sapiens

<400> 3582

Met Leu Leu Tyr Val Ser Val Gln Thr Pro Cys Leu Leu Ile Phe Cys

1 10 15

Val Asp Val Leu Leu Thr Ile Glu Ser Gly Ser Phe Gln Pro Pro Ala
20 25 30

Met Ile Arg Ala Thr Pro Tyr Phe Leu Gln Phe His Gln Trp Leu Leu 35 40 45

His Ile Phe Trp Asp Ser Val Phe Asp Phe Gly Thr Tyr Ile Phe Lys 50 55 60

Ile Ile Val Ser Pro Cys 65 70

<210> 3583

<211> 34

<212> PRT

<213> Homo sapiens

<400> 3583

Met Asn Gly Asn His Ala Trp Ile Ser Trp Ala Phe Ser Met Leu Phe 1 5 10 15

Phe Pro Ser Pro Leu Pro Gly Ile Tyr Ser Lys Leu Thr Tyr Asn Ser 20 25 30

Glu Asn

<210> 3584

<211> 54

<212> PRT

<213> Homo sapiens

<400> 3584

Met Val Met Leu Thr Leu Ser Ile Cys Ile Ser Thr Ser Leu Leu Gly $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$

Asp Thr Ala Gly Val Ser Phe Ser Glu Glu Cys His Thr Thr Met Glu 20 25 30

Leu Phe Ser Ile Asp Leu Glu Ile Gly Asn Phe Leu Tyr Thr Leu Arg
35 40 45

Glu Asn Phe Phe Glu Met

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<210> 3585
<211> 44
<212> PRT
<213> Homo sapiens
<400> 3585
Met Leu Asn Gly Gly Glu Leu Gly Ile Leu His Leu Phe Leu Ile
Ile Leu Asp Ile Ser Leu Leu Glu Glu Lys Leu Ser Val Thr Thr Glu
His Lys Val Asp Phe Ser Leu Ser Ser Pro Ile Phe
<210> 3586
<211> 7
<212> PRT
<213> Homo sapiens
<400> 3586
Met Ala Pro Lys Ala Trp Pro
<210> 3587
<211> 361
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (303)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 3587
Met Trp Val Leu Thr Pro Ala Ala Phe Ala Gly Lys Leu Leu Ser Val
Phe Arg Gln Pro Leu Ser Ser Leu Trp Arg Ser Leu Val Pro Leu Phe
                                 25
Cys Trp Leu Arg Ala Thr Phe Trp Leu Leu Ala Thr Lys Arg Arg Lys
         35
Gln Gln Leu Val Leu Arg Gly Pro Asp Glu Thr Lys Glu Glu Glu
Asp Pro Pro Leu Pro Thr Thr Pro Thr Ser Val Asn Tyr His Phe Thr
                     70
 65
Arg Gln Cys Asn Tyr Lys Cys Gly Phe Cys Phe His Thr Ala Lys Thr
```

90

Ser Phe Val Leu Pro Leu Glu Glu Ala Lys Arg Gly Leu Leu Leu Leu 100 105 110 Lys Glu Ala Gly Met Glu Lys Ile Asn Phe Ser Gly Gly Glu Pro Phe 120 Leu Gln Asp Arg Gly Glu Tyr Leu Gly Lys Leu Val Arg Phe Cys Lys Val Glu Leu Arg Leu Pro Ser Val Ser Ile Val Ser Asn Gly Ser Leu 150 Ile Arg Glu Arg Trp Phe Gln Asn Tyr Gly Glu Tyr Leu Asp Ile Leu 170 Ala Ile Ser Cys Asp Ser Phe Asp Glu Glu Val Asn Val Leu Ile Gly Arg Gly Gln Gly Lys Lys Asn His Val Glu Asn Leu Gln Lys Leu Arg 200 Arg Trp Cys Arg Asp Tyr Arg Val Ala Phe Lys Ile Asn Ser Val Ile 215 Asn Arg Phe Asn Val Glu Glu Asp Met Thr Glu Gln Ile Lys Ala Leu Asn Pro Val Arg Trp Lys Val Phe Gln Cys Leu Leu Ile Glu Gly Glu 250 Asn Cys Gly Glu Asp Ala Leu Arg Glu Ala Glu Arg Phe Val Ile Gly Asp Glu Glu Phe Glu Arg Phe Leu Glu Arg His Lys Glu Val Ser Cys 275 280 Leu Val Pro Glu Ser Asn Gln Lys Met Lys Asp Ser Tyr Leu Xaa Leu 295 Asp Glu Tyr Met Arg Phe Leu Asn Cys Arg Lys Gly Arg Lys Asp Pro 305 310 320 Ser Lys Ser Ile Leu Asp Val Gly Val Glu Glu Ala Ile Lys Phe Ser 325 330 Gly Phe Asp Glu Lys Met Phe Leu Lys Arg Gly Gly Lys Tyr Ile Trp 340 345 Ser Lys Ala Asp Leu Lys Leu Asp Trp

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<210> 3588
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355

<211> 37

<212> PRT

<213> Homo sapiens

<400> 3588

Met Asn Val Cys Phe Val Leu Phe Leu Leu Tyr Cys Leu Leu Asp Leu 1 5 10 15

Gly Cys Phe Pro Leu Ser Val Arg Thr Val Asn Val Asp Met Lys Val 20 25 30

His Ser Pro Val Glu 35

<210> 3589

<211> 33

<212> PRT

<213> Homo sapiens

<400> 3589

Met Val Leu Val Gln Ala Asp Cys Phe Ser Leu Leu Met Asn Ile 1 5 10 15

Ala Trp Leu Leu Ile Ile Ser Tyr Leu Glu Gly Ser Leu Gly Glu Gln
20 25 30

Phe

<210> 3590

<211> 104

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3590

Met Leu Ser Pro Trp Trp Gly Ser Asp Cys Phe Leu Glu Leu Ala Leu 1 5 10 15

Phe Phe Ser Ala Ser Glu Leu Ser Leu Leu Pro Leu Ala Leu Ser Ile 20 25 30

Phe Pro Ile Tyr Ile Cys Leu Ser Arg Phe Lys Phe Tyr Leu Leu Gln 35 40 45

Asp Ala Asn His Asn Phe Pro Ile Lys Cys Asn Leu Leu Val Phe Ala 50 55 60

Ser Pro Thr Val Leu Cys Gln Lys Cys Ser Pro Arg Gly Thr Glu Asn 65 70 75 80

Tyr Ser Phe Leu Gln Cys Gly Cys Ser His Pro Pro Phe Phe Leu Pro
85 90 95

Phe Cys Xaa Gln Thr Pro Xaa Arg

100

<210> 3591 <211> 399 <212> PRT <213> Homo

<213> Homo sapiens

<400> 3591

Met Leu Ser Leu Pro Cys Gly Trp Leu Cys Thr Ala Ile Gly Leu Pro 1 5 10 15

Thr Met Phe Gly Tyr Ile Ile Cys Gly Val Leu Leu Gly Pro Ser Gly 20 25 30

Leu Asn Ser Ile Lys Ser Ile Val Glu Val Glu Thr Leu Gly Glu Phe 35 40 45

Gly Val Phe Phe Thr Leu Phe Leu Val Gly Leu Glu Phe Ser Pro Glu 50 55 60

Lys Leu Arg Lys Val Trp Lys Ile Ser Leu Gln Gly Pro Cys Tyr Met 65 70 75 80

Thr Leu Leu Met Ile Ala Phe Gly Leu Leu Trp Gly His Leu Leu Arg 85 90 95

Ile Lys Pro Thr Gln Ser Val Phe Ile Ser Thr Cys Leu Ser Leu Ser 100 105 110

Ser Thr Pro Leu Val Ser Arg Phe Leu Met Gly Ser Ala Arg Gly Asp 115 120 125

Lys Glu Gly Asp Ile Asp Tyr Ser Thr Val Leu Leu Gly Met Leu Val 130 135 140

Thr Gln Asp Val Gln Leu Gly Leu Phe Met Ala Val Met Pro Thr Leu 145 150 155 160

Ile Gln Ala Gly Ala Ser Ala Ser Ser Ser Ile Val Val Glu Val Leu 165 170 175

Arg Ile Leu Val Leu Ile Gly Gln Ile Leu Phe Ser Leu Ala Ala Val 180 185 190

Phe Leu Leu Cys Leu Val Ile Lys Lys Tyr Leu Ile Gly Pro Tyr Tyr 195 200 205

Arg Lys Leu His Met Glu Ser Lys Gly Asn Lys Glu Ile Leu Ile Leu 210 220

Gly Ile Ser Ala Phe Ile Phe Leu Met Leu Thr Val Thr Glu Leu Leu 225 230 235 240

Asp Val Ser Met Glu Leu Gly Cys Phe Leu Ala Gly Ala Leu Val Ser 245 250 255

Ser Gln Gly Pro Val Val Thr Glu Glu Ile Ala Thr Ser Ile Glu Pro 260 265 270 Ile Arg Asp Phe Leu Ala Ile Val Phe Phe Ala Ser Ile Gly Leu His 275 280 285

Val Phe Pro Thr Phe Val Ala Tyr Glu Leu Thr Val Leu Val Phe Leu 290 295 300

Thr Leu Ser Val Val Val Met Lys Phe Leu Leu Ala Ala Leu Val Leu 305 310 315 320

Ser Leu Ile Leu Pro Arg Ser Ser Gln Tyr Ile Lys Trp Ile Val Ser 325 330 335

Ala Gly Leu Ala Gln Val Ser Glu Phe Ser Phe Val Leu Gly Ser Arg 340 345 350

Ala Arg Arg Ala Gly Val Ile Ser Arg Glu Val Tyr Leu Leu Ile Leu 355 360 365

Ser Val Thr Thr Leu Ser Leu Leu Leu Ala Pro Val Leu Trp Arg Ala 370 375 380

Ala Ile Thr Arg Cys Val Pro Arg Pro Glu Arg Arg Ser Ser Leu 385 390 395

<210> 3592

<211> 23

<212> PRT

<213> Homo sapiens

<400> 3592

Met Gly Leu Ala Gln Val Val Leu Pro Ala Val Ala His Met Ser Leu
1 5 10 15

Ala Pro Val Thr Leu Leu Ala 20

<210> 3593

<211> 39

<212> PRT

<213> Homo sapiens

<400> 3593

Met Ala Phe Phe Cys Ser Cys Gly Ser Arg Ala Val Glu Thr Ser Trp 1 5 10 15

Val Phe Leu Leu Ile Leu Cys Gln Pro Pro Gly Ala Val Cys Thr Gly
20 25 30

Val Gly His Leu Ala Pro Phe 35

<210> 3594

<211> 61

<212> PRT

<213> Homo sapiens

<400> 3594
Met Trp Leu Phe Arg Ser Leu Ser Gly Leu Phe Thr Asp Ile Leu Ala
1 5 10 15

Ser Pro Gln Leu Ser Leu Thr Lys Gly Tyr Ser Gln Lys Trp Ser Pro 20 25 30

Tyr Phe Pro Ser Ser Asn Asp Tyr Leu Pro Gly Gly Arg Ser Ser Ser 35 40 45

Val His Ser Ile Cys Phe Arg Thr Tyr Ala Gln Arg Leu
50 55 60

<210> 3595

<211> 48

<212> PRT

<213> Homo sapiens

<400> 3595

Met Ser Ile Leu Ser Val Ser His Phe Glu Asp Phe Phe Ser Leu Leu 1 5 10 15

Tyr Leu Cys Phe Ser Phe Phe Gly Phe Tyr Phe Val Val Leu Ser Val 20 25 30

Ile Phe Asn Val Pro Lys Ile Cys Thr Cys Ser Ile Lys Asn Val Val 35 40 45

<210> 3596

<211> 71

<212> PRT

<213> Homo sapiens

<400> 3596

Met Ala Gly Met Ala Leu Ala Arg Ala Trp Lys Gln Met Ser Trp Phe

1 5 10 15

Tyr Tyr Gln Tyr Leu Leu Val Thr Ala Leu Tyr Met Leu Glu Pro Trp
20 25 30

Glu Arg Thr Val Phe Asn Ser Met Leu Val Ser Ile Val Gly Met Ala 35 40 45

Leu Tyr Thr Gly Tyr Val Phe Met Pro Gln His Ile Met Ala Ile Leu 50 55 60

His Tyr Phe Glu Ile Val Gln 65 70

<210> 3597

<211> 7

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<212> PRT
<213> Homo sapiens
<400> 3597
Glu Leu Phe Ile Leu Gln Ile
<210> 3598
<211> 60
<212> PRT
.<213> Homo sapiens
<400> 3598
Met Glu Val Ile Ile Asn Ala Ser Trp Arg Leu Trp Val Trp Gly Ile
Leu Tyr Leu Asp Ser Val Ser Leu Gln Leu Glu Ala Val Gly Val Gly
Asp Ser Val Ser Gly Phe Arg Ile Thr Pro Ser Gly Gly Trp Gln Val
Phe Leu Gln Asp Gly Pro Glu Ser Lys Met Ser His
<210> 3599
 <211> 71
 <212> PRT
 <213> Homo sapiens
 <400> 3599
 Met Lys Ala Val Gly Leu Ala Trp Ala Ile Gly Phe Pro Cys Gly Ile
 Leu Leu Phe Ile Leu Thr Lys Arg Glu Val Asp Lys Asp Arg Val Lys
 Gln Met Lys Ala Arg Gln Asn Met Arg Leu Ser Asn Thr Gly Glu Tyr
                              40
          35
 Glu Ser Gln Arg Phe Arg Ala Ser Ser Gln Ser Ala Pro Ser Pro Asp
                          55
 Val Gly Ser Gly Val Gln Thr
  65
 <210> 3600
 <211> 30
 <212> PRT
 <213> Homo sapiens
 <400> 3600
 Met Thr Val Cys Gly Ser Phe Ala Ile Phe Leu Cys Ile Lys Ser Ala
                                       10
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Ile Val Ala Ala Ser Glu His Ala Cys Ile Pro Thr Asp Ile 20 25 30

<210> 3601

<211> 32

<212> PRT

<213> Homo sapiens

<400> 3601

Met His Leu Ser Asn Ala Cys Leu Val Phe Val Leu Gln Thr Cys Leu 1 5 10 15

Trp Trp Arg Val Val Ser Cys Ser Pro Val Arg Leu Lys Ala Ala Leu 20 25 30

<210> 3602

<211> 34

<212> PRT

<213> Homo sapiens

<400> 3602

Met Thr Met Phe Phe Ser Thr Trp Lys Ile Ala Thr Leu Cys Ser Thr 1 5 10 15

Phe Ser Gln Pro Gln Pro Trp Ser Thr Ile Thr Met Lys Lys Lys Asn 20 25 30

Met Pro

<210> 3603

<211> 28

<212> PRT

<213> Homo sapiens

<400> 3603

Met Cys Thr Ala Gly Ile Ala Glu Leu Leu Thr Trp Ile Leu Val Leu 1 5 10 15

Ala Phe Leu Leu Gln Phe Gln Tyr Leu His Leu 20 25

<210> 3604

<211> 42

<212> PRT

<213> Homo sapiens

<400> 3604

Met Tyr Leu Val Ile Phe Ser Cys Cys Pro Leu Gly Val Phe Pro Phe 1 5 10 15

Phe Ser His Val Asn Ile Phe His Arg Tyr Pro Cys Ser Leu Leu Asn 20 25 30

Leu Gln Ala His Thr Met Leu His Arg Ser 35 40

<210> 3605

<211> 30

<212> PRT

<213> Homo sapiens

<400> 3605

Met Val Ile Val Leu Tyr Ile Asn Ile Glu His Cys Cys Asp Cys Ser 1 5 10 15

Arg Thr Phe Tyr Val Thr Ala Leu Lys Gln Arg His Asp Tyr 20 25 30

<210> 3606

<211> 26

<212> PRT

<213> Homo sapiens

<400> 3606

Gly Gln Leu Arg Trp Ser Ser Leu Val Ser Gln Phe Ala Cys Leu Phe 1 5 10 15

Ile Leu Phe Ser Ala Lys Cys Ile Pro Phe 20 25

<210> 3607

<211> 37

<212> PRT

<213> Homo sapiens

<400> 3607

Met Val Phe Thr Phe Asp Leu Phe Gly Ile Leu Leu Thr Ser Gly Ile
1 5 10 15

Leu Gly Arg His Phe Phe Tyr Ser Ser Ala Tyr Glu Phe Lys Ala Ile 20 25 30

Phe Cys Lys Tyr Phe 35

<210> 3608

<211> 72

<212> PRT

<213> Homo sapiens

<400> 3608

Met Ser Asn Thr Thr Val Pro Asn Ala Pro Gln Ala Asn Ser Asp Ser

1				5					10					15	
Met	Val	Gly	Tyr 20	Val	Leu	Gly	Pro	Phe 25	Phe	Leu	Ile	Thr	Leu 30	Val	Gly
Val	Val	Val 35	Ala	Val	Val	Arg	Ser 40	Pro	His	Ile	His	Thr 45	Asp	Thr	His
Ser	Phe 50	Ala	Lys	Ala	Gly	Ala 55	Gly	Trp	Ala	Trp	Ser 60	Ser	Leu	His	Arg
Val 65	Pro	Thr	Val	Leu	Leu 70	Arg	Glu								
<210> 3609 <211> 39 <212> PRT <213> Homo sapiens															
	0> 3 Ala		Ser	Pro 5	Phe	Leu	Ser	Leu	Gly 10	Pro	Pro	Arg	His	Thr 15	Ile
Ser	Val	Lys	Gly 20	Leu	Ser	Ser	Pro	His 25	Gly	Leu	Leu	Ser	Gln 30	Pro	Phe
Pro	Leu	Trp 35	Gln	Pro	Trp	Gly									
<21 <21	0> 3 1> 2 2> P 3> H	8 RT	sapi	ens											
			Gly	Gly 5	Cys	Phe	Phe	Val	Val 10	Ala	Trp	Phe	Gly	Ile 15	Phe
Gly	Phe	· Val	Cys 20		Cys	Ile	Asn	Phe 25	Leu	Tyr	Asn				
<21 <21	0> 3 1> 4 2> F 3> H	8 PRT	sapi	ens											
<40 Met 1		611 : Gly	Trp	Arg 5	Ile	Leu	Ala	Ile	Gly 10		Val	Leu	Thr	Ala 15	Ala
01.		. Ta		Dha	Dro	T 011	Dro	Co~	Len	Tla	T.e.ii	va 1	T.e.11	ጥህን	Pro

Pro Phe His Ser Ser Pro Asp Ser Leu Ser Ser Ser Ser Leu Tyr Leu 35 40 45

<212> PRT

<213> Homo sapiens

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<210> 3612
<211> 21
<212> PRT
<213> Homo sapiens
<400> 3612
Met Lys Leu Glu Phe Phe Trp Ile Phe Leu Val Ile Cys Trp Cys Val
Leu Ser Ser Asp Thr
             20
<210> 3613
<211> 36
<212> PRT
<213> Homo sapiens
<400> 3613
Met Cys Leu Cys Cys Phe Leu Leu Lys Asn Cys Gln Arg Ser Gly Glu
Gly Asn Asp Arg Ser Arg Lys Ala Pro His His Cys Val Val Arg Gln
Tyr Thr Glu Arg
         35
<210> 3614
<211> 54
<212> PRT
<213> Homo sapiens
<400> 3614
Met Lys Val Val Leu Met Leu Phe Ile Cys Leu Gly Asn Met Tyr
Leu His Gly Leu Arg Asn Leu Trp Gln Ile Leu Phe His Ile Gly Val
                                 25
Ala Phe Leu Ser Ser Tyr Gln Ile Leu Thr Arg Gln Leu Gln Glu Lys
                             40
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Gln Ser Asp Cys Gly Val
     50
<210> 3615
<211> 116
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<400> 3615

Met Val Arg Gly Pro Ile Cys Tyr Ser Phe Pro Pro Ala Pro Leu Phe
1 10 15

Gln Phe Trp Leu Leu Val Ser Leu Arg Tyr Leu Gln Pro Pro Trp 20 25 30

Leu Gly Asn His Arg Ser Ala Gln Leu Ser Pro Trp Ser Pro Val Ser 35 40 45

Gln Ser Leu Val Leu Pro Gly Pro Pro His Pro His Pro Gln Glu Pro 50 55 60

Gln Pro Phe Leu Arg Gly Phe Gln Lys Asp Ser Leu Trp Arg Leu Phe 65 70 75 80

Leu Leu Thr Phe Glu Ser Ser Pro Phe Gln Phe Ser Phe Thr Arg Ser 85 90 95

Asn Cys Thr Gln Ala Val Leu Lys Ile Gly Asn Ala Phe Ile Tyr Thr 100 105 110

Lys Pro Phe Pro 115

<210> 3616

<211> 32

<212> PRT

<213> Homo sapiens

<400> 3616

Met Arg Leu Phe Leu Cys Leu Trp Ser Asn Pro Ala Trp Gly Lys Val 1 5 10 15

Ser Ile Ser Asp Thr Ile Asp Val Phe Tyr Ser Ala Leu Asn Phe Ile 20 25 30

<210> 3617

<211> 46

<212> PRT

<213> Homo sapiens

<400> 3617

Met His Asn Leu Met Leu Ile Leu Ile Ser Leu Phe Ile Leu Gln Ile 1 5 10 15

Ser Lys Asp Lys Gly Ile Phe Cys Phe Val Leu Ile Leu Ala Arg Leu 20 . 25 30

Arg Gly Thr Arg His Ser Tyr Thr Leu Leu Gly Met Asn Arg
35 40 45

<400> 3621

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<210> 3618
<211> 42
<212> PRT
<213> Homo sapiens
<400> 3618
Met Ser Leu Gly Glu Thr Leu Leu Ile Thr Thr Tyr Val Pro Val Phe
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Leu Leu Leu Gly Val Pro Gly Cys Arg Pro Pro Leu Gly Lys Ala Val
Thr Gly Arg Cys Ser Ser Thr Phe Leu Asp
<210> 3619
<211> 36
<212> PRT
<213> Homo sapiens
<400> 3619
Met Glu Arg Ala Leu Phe Ser Val Pro His Leu Leu Val Val Leu Asp
Phe Thr Thr Cys Ala Cys Ile Ala Tyr Thr Asn Lys Asp Thr Asn Leu
Lys Lys Lys
    35
<210> 3620
<211> 51
<212> PRT
<213> Homo sapiens
<400> 3620
Met Ala Leu Phe Leu Leu His Ile His Cys Leu Phe Met Ser Ile Pro
                 5
Phe Pro Ser Ala Lys Gln Thr Gly Gly Lys Thr Glu Thr Gly Ser Phe
Arg Asp Gly Gln Arg Thr Leu Phe Trp Ile Val Asp Val Asp Phe Phe
                              40
         35
Val His Lys
     50
 <210> 3621
 <211> 106
 <212> PRT
 <213> Homo sapiens
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Met Leu Phe Thr Leu Leu Val Ser Cys Tyr Val Phe Leu Pro Leu Ala 1 5 10 15

Leu Pro Cys Phe Ala Phe Phe Phe Ser Phe Trp Pro Ile Pro Phe Tyr 20 25 30

Met Cys Pro Gln Gln Arg Trp Gly Asp Thr Glu His Pro Gly Ser Phe 35 40 45

Pro Ala Leu Gly Arg Pro Arg Leu Gln Ala Pro Ala Val Glu Thr
50 60

Leu Lys Gly Asn Lys Gln Pro Ser Thr Leu Pro Asp Pro Arg Leu Phe 65 70 75 80

Arg Glu Ala Ala His Phe His Pro Gly Pro Arg Thr Pro Ser Leu Cys
85 90 95

Pro Thr Arg Ile Ser Leu Asn Gly Arg Asp 100 105

<210> 3622

<211> 36

<212> PRT

<213> Homo sapiens

<400> 3622

Met Thr Phe Val Cys Lys Trp Leu Leu Gly Leu Glu Met Ala Trp Phe $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$

Leu Phe Phe Phe Phe Phe Leu Ser Ser Ser Arg Trp Glu Gly Gly 20 25 30

Leu Arg Val Leu 35

<210> 3623

<211> 18

<212> PRT

<213> Homo sapiens

<400> 3623

Gly Ser Cys Leu Lys Leu Thr Gln Phe Lys Tyr Ser Phe Cys Lys Thr 1 5 10 15

Asp Phe

<210> 3624

<211> 62

<212> PRT

<213> Homo sapiens

<400> 3624

Met Gly Phe Ser Leu Phe Phe Leu Phe Phe Leu Pro Pro Phe Ala Val

10 15 Phe Pro Asp Leu His Leu Leu Lys Ser Lys Cys Thr Phe Leu Gly Leu 25 Ser Lys Cys Arg Ser Phe Met Leu Ser Tyr His Thr Pro Thr Glu Cys Arg Ser His Thr Ala Lys Ala Leu Ala Cys His Ile Val Met <210> 3625 <211> 30 <212> PRT <213> Homo sapiens <400> 3625 Met Val Val Ala Tyr Gly Arg Val Phe Met Leu Tyr Leu Ser Leu Leu Phe Asn Phe Tyr Gln Ile Lys Gly Ser Lys Asn Ile Asn Leu 25 <210> 3626 <211> 18 <212> PRT <213> Homo sapiens <400> 3626 Met Gln Gln Ile Lys Phe Val Val Phe Ala Phe Gln Gly Val Thr Gly Cys Pro <210> 3627 <211> 54 <212> PRT <213> Homo sapiens <400> 3627 Met Leu Ile Gln Met Glu Lys Thr Gly Glu Gly Val Gly Val Thr Val Gln Tyr Phe Leu Ala Leu Gly Leu Leu Leu Ser Gln Phe Leu Ser Leu

Pro Leu Leu Ile Ile Ser Gly Met Leu Ala Val Ile Asn Pro Ile Ser 40

Met Met Asn Gly Leu Gly 50

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<210> 3628
<211> 10
<212> PRT
<213> Homo sapiens
<400> 3628
Met Phe Val Tyr Cys Ile His Phe His Ser
                  5
<210> 3629
<211> 7
<212> PRT
<213> Homo sapiens
<400> 3629
Met Gln Ser Ile Lys Arg Thr
<210> 3630
<211> 34
<212> PRT
<213> Homo sapiens
<400> 3630
Met Leu Val Thr Glu Phe Cys Ile Val Leu Phe Phe Leu Phe Gln
Tyr Ile Gln Phe Asp Asp Val Leu Glu Ile Gly Ala Asn Ile Tyr Thr
Pro Leu
<210> 3631
<211> 45
<212> PRT
<213> Homo sapiens
<400> 3631
Met Arg Gly Leu Tyr Phe Cys Leu Gly Val Val Ile Cys Thr His Ala
Ile Leu Leu Lys Pro Ser Cys Leu Val Leu Phe Leu Glu Ser Phe Phe
Phe Pro Val Leu Met Tyr Ala Gly Phe Gly Asn Ser Ser
                             40
         35
<210> 3632
<211> 2
<212> PRT
<213> Homo sapiens
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<400> 3632 Met Gly 1

<210> 3633

<211> 44

<212> PRT

<213> Homo sapiens

<400> 3633

Met Ile Phe His Leu Ser Asn Leu Leu Leu Asp Thr Ile Cys Thr Phe 1 5 10 15

Leu Phe Ser Cys Ser Gln Gly Gly Leu Gln Gly Pro Glu Leu Cys
20 25 30

Tyr Pro Thr Arg Phe Leu Ile Glu Ile Pro Asn His
35 40

<210> 3634

<211> 37

<212> PRT

<213> Homo sapiens

<400> 3634

Met Leu Gly Ile Val Ile Ser Cys Leu Phe Tyr Cys Trp Thr Lys Trp

1 10 15

Glu Ala Lys Glu Val Cys Gln Arg Arg Trp Arg Val Arg Arg Tyr His

Leu Ser Lys Ile Ser 35

<210> 3635

<211> 31

<212> PRT

<213> Homo sapiens

<400> 3635

Met Ile Leu Asp Thr Lys Met Trp Val Leu Ser Ile Leu Val Ala Val 1 5 10 15

Gly Val Leu Ile Ala Ser Arg Ala Ser Gln Asp Arg Ala Arg Lys $20 \hspace{1cm} 25 \hspace{1cm} 3 \ddot{0}$

<210> 3636

<211> 22

<212> PRT

<213> Homo sapiens

<400> 3636

Met Val Phe Ile Phe Ile Ser Thr Cys Gln Leu Cys Ile Ser Lys Thr

1 5 10 15

Ala Gly Phe Ser Lys Glu 20

<210> 3637

<211> 30

<212> PRT

<213> Homo sapiens

<400> 3637

Met Leu Glu Met Leu Leu Arg Leu Leu Arg Ala Ile Trp Ala Asn Val 1 5 10 15

Phe Leu Trp His Phe Tyr Phe Thr Asn Ser Ile Ser Ser Ile 20 25 30

<210> 3638

<211> 756

<212> PRT

<213> Homo sapiens

<400> 3638

Met Ser Ala Leu Phe Leu Leu Val Ile Gly Thr Ala Tyr Leu Glu Ala 1 5 10 15

Gln Gly Ile Trp Glu Pro Phe Arg Arg Leu Ser Phe Glu Ala Ser 20 25 30

Asn Pro Pro Phe Asp Val Gly Arg Pro Phe Asp Leu Arg Arg Ile Val 35 40 45

Gly Ile Ser Ser Glu Gly Asn Leu Asn Thr Leu Ser Cys Asp Pro Gly 50 60

His Ser Arg Gly Phe Cys Gly Ala Gly Gly Ser Ser Arg Pro Ser 65 70 75 80

Ala Gly Ser His Lys Gln Cys Gly Pro Ser Val His Pro His Ser Ser 85 90 95

His Ser Asn Arg Asn Ser Ala Asp Val Glu Asn Val Arg Ala Lys Asn

Ser Ser Ser Thr Ser Ser Arg Thr Ser Ala Gln Ala Ala Ser Ser Gln
115 120 125

Ser Ala Asn Lys Thr Ser Pro Leu Val Leu Asp Ser Asn Thr Val Thr 130 140

Gln Gly His Thr Ala Gly Arg Lys Ser Lys Gly Ala Lys Gln Ser Gln 145 150 155 160

His Gly Ser Gln His His Ala His Ser Pro Leu Glu Gln His Pro Gln 165 170 175

Pro Pro Leu Pro Pro Pro Val Pro Gln Pro Gln Glu Pro Gln Pro Glu

180 185 190 Arg Leu Ser Pro Ala Pro Leu Ala His Pro Ser His Pro Glu Arg Ala 200 Ser Ser Ala Arg His Ser Ser Glu Asp Ser Asp Ile Thr Ser Leu Ile 215 Glu Ala Met Asp Lys Asp Phe Asp His His Asp Ser Pro Ala Leu Glu 225 230 Val Phe Thr Glu Gln Pro Pro Ser Pro Leu Pro Lys Ser Lys Gly Lys Gly Lys Pro Leu Gln Arg Lys Val Lys Pro Pro Lys Lys Gln Glu Glu 260 Lys Glu Lys Lys Gly Lys Gly Lys Pro Gln Glu Asp Glu Leu Lys Asp Ser Leu Ala Asp Asp Ser Ser Ser Thr Thr Thr Glu Thr Ser Asn Pro Asp Thr Glu Pro Leu Leu Lys Glu Asp Thr Glu Lys Gln Lys Gly 310 Lys Gln Ala Met Pro Glu Lys His Glu Ser Glu Met Ser Gln Val Lys 330 Gln Lys Ser Lys Lys Leu Leu Asn Ile Lys Lys Glu Ile Pro Thr Asp Val Lys Pro Ser Ser Leu Glu Leu Pro Tyr Thr Pro Pro Leu Glu Ser 360 Lys Gln Arg Arg Asn Leu Pro Ser Lys Ile Pro Leu Pro Thr Ala Met Thr Ser Gly Ser Lys Ser Arg Asn Ala Gln Lys Thr Lys Gly Thr Ser Lys Leu Val Asp Asn Arg Pro Pro Ala Leu Ala Lys Phe Leu Pro Asn Ser Gln Glu Leu Gly Asn Thr Ser Ser Glu Gly Glu Lys Asp Ser 425 Pro Pro Pro Glu Trp Asp Ser Val Pro Val His Lys Pro Gly Ser Ser Thr Asp Ser Leu Tyr Lys Leu Ser Leu Gln Thr Leu Asn Ala Asp Ile 455 460 Phe Leu Lys Gln Arg Gln Thr Ser Pro Thr Pro Ala Ser Pro Ser Pro 465 470 475 480 Pro Ala Ala Pro Cys Pro Phe Val Ala Arg Gly Ser Tyr Ser Ser Ile 490 Val Asn Ser Ser Ser Ser Asp Pro Lys Ile Lys Gln Pro Asn Gly 500 505 510

Ser Lys His Lys Leu Thr Lys Ala Ala Ser Leu Pro Gly Lys Asn Gly 515 520 525

Asn Pro Thr Phe Ala Ala Val Thr Ala Gly Tyr Asp Lys Ser Pro Gly 530 540

Gly Asn Gly Phe Ala Lys Val Ser Ser Asn Lys Thr Gly Phe Ser Ser 545 550 555

Ser Leu Gly Ile Ser His Ala Pro Val Asp Ser Asp Gly Ser Asp Ser 565 570 575

Ser Gly Leu Trp Ser Pro Val Ser Asn Pro Ser Ser Pro Asp Phe Thr 580 595

Pro Leu Asn Ser Phe Ser Ala Phe Gly Asn Ser Phe Asn Leu Thr Gly 595 600 605

Glu Val Phe Ser Lys Leu Gly Leu Ser Arg Ser Cys Asn Gln Ala Ser 610 615 620

Gln Arg Ser Trp Asn Glu Phe Asn Ser Gly Pro Ser Tyr Leu Trp Glu 625 630 635 640

Ser Pro Ala Thr Asp Pro Ser Pro Ser Trp Pro Ala Ser Ser Gly Ser 645 650 655

Pro Thr His Thr Ala Thr Ser Val Leu Gly Asn Thr Ser Gly Leu Trp 660 665 670

Ser Thr Thr Pro Phe Ser Ser Ser Ile Trp Ser Ser Asn Leu Ser Ser 675 680 685

Ala Leu Pro Phe Thr Thr Pro Ala Asn Thr Leu Ala Ser Ile Gly Leu 690 695 700

Met Gly Thr Glu Asn Ser Pro Ala Pro His Ala Pro Ser Thr Ser Ser 705 710 715 720

Pro Ala Asp Asp Leu Gly Gln Thr Tyr Asn Pro Trp Arg Ile Trp Ser

Pro Thr Ile Gly Arg Arg Ser Ser Asp Pro Trp Ser Asn Ser His Phe 740 745 750

Pro His Glu Asn 755

<210> 3639

<211> 1

<212> PRT

<213> Homo sapiens

<400> 3639

Phe

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<210> 3640
<211> 7
<212> PRT
<213> Homo sapiens
<400> 3640
Lys Ile Leu Asp Phe His Ser
                5
<210> 3641
<211> 35
<212> PRT
<213> Homo sapiens
<400> 3641
Ala Pro Ser Ile Ser Thr Gly Ser Pro Ser Ile Ala Asn Leu Phe Leu
Thr Gly Leu Leu Gly Pro Glu Val Leu His Leu Lys His Pro Met Leu
                                  25
Lys Ala Ala
<210> 3642
<211> 32
<212> PRT
<213> Homo sapiens
<400> 3642
Met Phe Ala Arg Cys Ser Leu Leu Leu Ile Ser Phe Leu Leu Phe Thr
Ala Arg Phe Ser Gln Val Arg Gly His Gln Pro Trp Pro Pro Phe Pro
<210> 3643
<211> 17
<212> PRT
<213> Homo sapiens
<400> 3643
Met Pro Leu Ser Cys Tyr Phe Lys Leu Trp Pro Ser Ile Ala Leu Ser
                                      10
Leu
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<210> 3644

<211> 34

<212> PRT <213> Homo sapiens <400> 3644 Met Arg Lys Tyr Cys Leu Gly Phe Cys Tyr Ser Val Phe Ile Leu Gly Arg Val Leu Asn Phe Met His Leu His Leu Leu Ala Cys Gly Cys Ala 30 Lys Cys <210> 3645 <211> 37 <212> PRT <213> Homo sapiens <400> 3645 Lys Thr Ile His Ser Tyr Leu Phe Phe Phe Ser Pro Tyr Cys Leu Ser Gln Leu Thr Leu Tyr Thr Asp Phe Val Ser Pro Ser Ile Pro Phe Thr 25 Pro Asp Tyr Lys Phe 35 <210> 3646 <211> 28 <212> PRT <213> Homo sapiens <400> 3646 Met Lys Gly Phe Phe Leu Ile Val Phe Met Leu Ser Arg Ala Glu Glu Glu Glu Asp Glu Gly Leu Val Leu Leu Ser Cys Gly <210> 3647 <211> 31 <212> PRT <213> Homo sapiens <400> 3647 Met Ile Arg His Leu Arg Asn Thr Gly Ala Leu Leu Leu Phe Ser Leu Gln Leu Val Trp Ala Asp Lys Arg Glu Ile Glu Pro Ser His Ser

20

25

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<210> 3648
<211> 1
<212> PRT
<213> Homo sapiens
<400> 3648
Ile
<210> 3649
<211> 17
<212> PRT
<213> Homo sapiens
<400> 3649
Met Arg Gly Ser Ser Gln Leu Cys Leu Val Leu Leu Pro Ala Ala
                                    10
Leu
<210> 3650
<211> 9
<212> PRT
<213> Homo sapiens
<400> 3650
Met Trp Gly Arg Ser Phe Leu Gln Leu
 1
<210> 3651
<211> 16
<212> PRT
<213> Homo sapiens
<400> 3651
Gly His Thr Glu Gly Ile Ala Val Val Ser His Phe Gly Phe Leu Leu
<210> 3652
<211> 34
<212> PRT
<213> Homo sapiens
<400> 3652
Met Asp Leu Phe Gly Phe Arg Ala Leu Leu Ser Phe His Trp Asn Val
Leu Phe Ala Leu Ala Leu Phe Phe Phe Phe Trp Phe Leu Leu Ala
                                  25
             20
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Phe Ile

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<210> 3653
<211> 46
<212> PRT
<213> Homo sapiens
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<400> 3653

Met Thr Arg Arg His Ile Val Leu Leu Arg Glu Phe Trp His Trp Glu
1 5 10 15

Arg Cys Arg Leu Ser Arg Met Thr Ala Ile Pro Thr Pro Gln Ser Val 20 25 30

Leu Arg Asp Cys Gly Glu Gly Ala Ser Gly Thr Gly Lys Val 35 40 45

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<210> 3654
<211> 126
<212> PRT
<213> Homo sapiens
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<400> 3654

Met Val Ala Gly Leu Ile Pro Ala Pro Ala Leu Val Pro Val Phe Cys
1 5 10 15

Trp Phe Val Ser Leu Phe Ser Pro His Glu Leu Phe Leu Gln Leu Phe 20 25 30

Phe Lys Met Arg Leu Ser Gly Ser Val Ser Pro Met Arg Ala Gly Ala 35 40 45

Thr Cys Gly Ile Ser Trp Thr Arg Pro Arg Gly Cys Arg Gly Gln Pro
50 55 60

Gly Arg Glu Glu Arg Glu Lys Pro Gly Gln Arg Trp Gly Gly Ser 65 70 75 80

Ser Pro Glu Ser Pro Arg Leu Gly Gln Ser Gly Arg Gln Pro Glu Ala 85 90 95

Arg Gly Leu Gly Glu Glu Ser Leu Val Asp Gly Arg Glu Arg Gly Ala 100 105 110

Leu Leu Tyr Ala Pro Gly Ala Leu Cys Arg Arg Ala Ala Gly
115 120 125

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<210> 3655
<211> 66
<212> PRT
<213> Homo sapiens
<400> 3655
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Met Ala Leu Ile Leu Ile Val Phe Lys Tyr Gln Ser Phe Phe Arg Leu
1 5 10 15

His Ser Cys Asn Gln Gln Pro His Ala Lys Val Leu Glu Pro Ala Val 20 25 30

Glu Leu Gln Asp Glu Asp Gly Met Val His Leu Ser Thr Val Ile Ser 35 40 45

Tyr Asn Leu Lys Asn Arg Gln Ala Gly Asn Val Tyr Ile Glu Ser Tyr 50 55 60

Ile Pro 65

<210> 3656

<211> 49

<212> PRT

<213> Homo sapiens

<400> 3656

Asp Gln Arg Gln Trp Leu Gly Val Met Cys Glu Leu Ser Leu Leu 1 5 10 15

Arg Met Leu Phe Cys Glu Arg Asn Cys Glu Cys Asn Gly Asn Val Gly
20 25 30

Ala Ser Gly Asp Ser Leu Ser Cys Pro Leu Thr Ser Lys Ala Ser Cys 35 40 45

Ala

<210> 3657

<211> 69

<212> PRT

<213> Homo sapiens

<400> 3657

Met Gly Ala Trp Gly Arg Gly Trp Pro Trp Glu Glu Arg Gln Gly His
1 5 10 15

His Leu Leu Leu Leu Leu Pro Ala Pro Thr Leu Lys Gly Leu Gly
20 25 30

Ala Ala Gln Leu Pro Leu Cys Pro Ser Gly Gly Leu Ser Pro Leu Leu 35 40 45

Thr Leu Leu Gln Ser Arg Glu Thr Leu Asn Lys Ala Ile Arg Val Cys 50 55 60

Gln Lys Lys Lys Lys 65

<210> 3658

<211> 38 <212> PRT

<213> Homo sapiens

<400> 3658

Met Ser Ile Phe Ser Val Leu Ile Phe Phe Pro Ser His Cys Tyr Ser 1 5 10 15

Leu Pro Ser Arg Val Arg Cys Gly Glu Ile Met Leu Ala Cys Phe His
20 25 30

Gly Asp Thr Glu Glu Lys 35

<210> 3659 <211> 19

<211> 19
<212> PRT

<213> Homo sapiens

<400> 3659

Met Ala Cys Ile Pro Ser Gly Leu Leu Ile Trp Ala Trp Asn Leu Trp
1 5 10 15

Phe Arg Ala

<210> 3660

<211> 84

<212> PRT

<213> Homo sapiens

<400> 3660

Met Arg Val Ala Val Gly Gln Ala Leu Gln Ile Met Val Ile Ala Trp
1 5 10 15

Cys Thr Gly Leu Ser Leu Val Ala Glu Ala Leu Leu Cys Lys Gly Lys 20 25 30

Ser Arg Ala Thr Val Thr Gly Glu Ala Gln Arg Pro Gln Pro His Thr 35 40 45

Gly Leu Leu Cys Arg Leu Pro Leu Asp Leu Arg Val Leu His Leu Trp 50 55 60

Lys Thr Val Trp Arg Ala Val Leu Trp Pro Gly Gly Arg Arg Thr Gln 65 70 75 80

Leu Ala Gly Ser

<210> 3661

<211> 36

<212> PRT

<213> Homo sapiens

<400> 3661 Met Cys Tyr Phe Leu Val Ile Ser Ile Ile Leu Cys Ile Phe Arg Leu Phe Asn Ser Gln Met Tyr Met Ile Leu Pro Cys Phe Leu Lys Lys Asn 30 Leu Ser Ile Met 35 <210> 3662 <211> 20 <212> PRT <213> Homo sapiens <400> 3662 Met Lys Ala Val Trp Tyr Leu Ala Ser Ser Phe Leu Ile Phe Leu Val Val Gln Lys Arg <210> 3663 <211> 27 <212> PRT <213> Homo sapiens <400> 3663 Met Ile Arg Thr Val Ile Phe Ser Thr Leu Phe Leu Tyr Ser Val Pro Gly Met Thr Tyr Ser Ile Asp Phe Met Thr His 20

<210> 3664 <211> 32 <212> PRT

<213> Homo sapiens

<400> 3664

Thr Phe Leu Phe Leu Phe Trp Tyr Cys Lys Leu Ala Gly Trp Leu His
1 5 10 15

Trp Leu Thr His Tyr Pro Leu His His Ile Leu Phe Phe Thr Tyr Tyr 20 25 30

<210> 3665 <211> 39 <212> PRT <213> Homo sapiens <400> 3665 Met Tyr Ile Ile Ile Ser Leu Thr Leu Ile Met Trp Arg Phe Arg Phe 1 5 10 15

Phe Gln Leu Met Arg Leu Gln Pro Cys Leu Cys Leu Lys Lys Met Lys 20 25 30

Lys Gln Asn Lys Thr Met Ser 35

<210> 3666 <211> 36

<212> PRT

<213> Homo sapiens

<400> 3666

Met Gly Leu Ser Gly Pro Gly Gly Ser Gln His Ser Leu His Phe Leu
1 5 10 15

Thr Ser Ser Ser Phe Leu Ile Phe Phe Ser Phe Phe Ser Ile Glu Thr 20 25 30

Gly Ala Glu Ala 35

<210> 3667

<211> 77

<212> PRT

<213> Homo sapiens

<400> 3667

Met Glu Lys Gly Asp Pro Asp Pro Lys Pro Ala Leu Pro Ser Leu Trp
1 5 10 15

Cys Trp Gly Gly Pro Val Cys Leu Cys Asn Cys Val Cys Met Leu Val 20 25 30

Phe Val Cys Ile Ser Val Phe Gln Val Tyr Val Ser Pro Cys Ala Pro 35 40 45

Ala Pro Gln Leu Ser Thr Pro Gly Cys Leu Ser Pro Val Gly Leu Cys 50 55 60

Leu Leu Gly Ile Lys Gln Gly Phe Leu Leu Gln Gly Met 65 70 75

<210> 3668

<211> 26

<212> PRT

<213> Homo sapiens

<400> 3668

Met Ser Pro Phe Phe Leu Thr Val Leu Lys His Tyr Phe Ala Phe Leu 1 5 10 15

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<210> 3669
<211> 10
<212> PRT
<213> Homo sapiens
<400> 3669
Met Leu Lys Ser Asp Ala Val Lys Ala Ile
<210> 3670
<211> 31
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 3670
Met Tyr Tyr Val Gln Lys Thr Asn Pro Leu Val Ile Ala Met Gly Thr
Val Ser Ile Asn Phe Phe Phe Tyr Lys Xaa Arg Lys Val Tyr
<210> 3671
<211> 39
<212> PRT
<213> Homo sapiens
<400> 3671
Met Tyr Ile Cys Leu Ile Ile Leu Leu Ser Thr Val Phe Cys Gly Pro
                                     10
Asp Ser Ala Phe Leu Cys Phe Phe Gly Phe Arg Leu Leu Val Ala Cys
                                 25
             20
Asp Phe Ser Asp Phe Trp Pro
         35
<210> 3672
<211> 42
<212> PRT
<213> Homo sapiens
<400> 3672
Met Arg Leu Val Ser Tyr Ile Val Phe Leu Asp Gly Phe Leu Leu Leu
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Phe Val Thr Lys Ser Phe Ile Phe Asn Gly

5

20

Ile Leu Lys Tyr Leu Asn Phe Cys Val Thr Gln Val Ser Tyr Thr Ser 20 25 30

Phe Trp Cys Leu Gly Gln Ile Tyr Gly Lys
35 40

<210> 3673

<211> 80

<212> PRT

<213> Homo sapiens

<400> 3673

Ile Ser Ser Thr Asp Ile Trp Trp Asn Arg Ser Leu Asp Thr Gly Leu

1 10 15

Arg Leu Leu Ser Trp Pro Gly Ala Ala Gly Thr Thr Ala Cys Val 20 25 30

Cys Ala Asp Thr Val Tyr Tyr Gln Met Val Pro Ser Trp Lys Phe 35 40 45

Arg Ser Pro Pro Thr Trp Ile Ser Leu Leu Gly Pro Phe Ser Gly Ser 50 55 60

Phe Asn Val Asp Asn Asp Ser Gly Met Trp Leu Tyr Leu Leu Leu Tyr 65 70 75 80

<210> 3674

<211> 37

<212> PRT

<213> Homo sapiens

<400> 3674

Met Leu Ile Phe Gln Ile Ile Ser Gln Gln Leu Pro Tyr Leu Leu Leu 1 5 10 15

Ala Ile Thr Thr Gly Ser Gln Glu Ser Arg Tyr Phe Tyr Ser Cys Trp
20 25 30

Thr Asn Glu Lys Lys 35

<210> 3675

<211> 30

<212> PRT

<213> Homo sapiens

<400> 3675

Met Thr Pro Cys Thr Leu Ser Phe Pro Val Phe Leu Ile Tyr Ile Ile 1 5 10 15 Ser Lys Tyr Leu Trp Leu Leu Ser Ser Cys Ser Pro Glu Pro 20 25 30

<210> 3676

<211> 38

<212> PRT

<213> Homo sapiens

<400> 3676

Met Thr Cys Ala Arg Ser Pro Leu Ala Leu Pro Thr Pro Leu Phe Phe 1 5 10 15

Phe Leu Leu Ile Leu Tyr Ser Gln Lys Arg Ile Ser Phe Ser Ser Phe 20 25 30

Phe His Ser Leu Lys Phe 35

<210> 3677

<211> 5

<212> PRT

<213> Homo sapiens

<400> 3677

Gly Lys Cys Ala Cys
1 5

<210> 3678

<211> 77

<212> PRT

<213> Homo sapiens

<400> 3678

Met Gln Lys Gln Leu Tyr Phe Arg Ala Trp Cys Tyr Leu Leu Ala Asn 1 5 10 15

Phe Leu Phe Phe Asp Leu Thr Ala Thr Thr Phe Asp Ser Thr Ser Leu 20 25 30

Lys Thr Ser Ala Arg Ser Arg Gln Tyr Thr Leu Thr Thr Leu Val Leu 35 40 45

Thr Ala Phe Pro Ile Ala Ser Leu Pro Phe Lys Leu Leu Val Ser 50 55 60

Val Leu Pro Ser Asp Trp Ser Lys His Asn Lys Gly Leu 65 70 75

<210> 3679

<211> 28

<212> PRT

<213> Homo sapiens

Phe Leu Ile Met Phe Leu Val Phe Cys Glu Ser Leu 20 25

<210> 3680

<211> 34

<212> PRT

<213> Homo sapiens

<400> 3680

Met Ala Thr Ile Leu Ile Leu Ser Met His Leu His Leu Leu Gln Ala 1 5 10 15

Ser Ser Lys Gly Leu Cys Phe Cys Thr Leu Pro Ser Thr Phe Leu Tyr 20 25 30

Asp Phe

<210> 3681

<211> 66

<212> PRT

<213> Homo sapiens

<400> 3681

Met Thr Leu Pro Ser Trp Phe Ser Cys Tyr Leu Ser Asp Cys Pro Leu 1 5 10 15

Arg Gly Pro Leu Ser Pro Pro Val Leu Ser Phe Leu Val Ser Leu Lys

Gly Leu Val Met Gly Leu Arg Pro Ser Lys Tyr Ala Pro Gly Phe Asn 35 40 45

Tyr His Leu Tyr Ala Ala Glu Ser Lys Ser Ile Gln Leu Val Leu Asn 50 60

Cys Thr 65

<210> 3682

<211> 33

<212> PRT

<213> Homo sapiens

<400> 3682

Met Val Val Met Glu Ala Gly Gly Ile Met Pro Cys Trp Phe Gln Cys 1 5 10 15

Trp Asp Trp Leu Leu Phe Val Gly Phe Gly Leu Gly Ser Pro Arg Lys 20 25 30

Lys

<210> 3683
<211> 34
<212> PRT
<213> Homo sapiens
<400> 3683

Lys Trp Leu Leu Phe Ile Phe Leu Leu Cys Leu Gln Leu Val Asn Ala 1 5 10 15

Leu Leu Ser Leu Phe Gln Glu Arg Phe Val His Cys Pro Ala Arg Phe 20 25 30

Val Ser

<210> 3684 <211> 29 <212> PRT <213> Homo sapiens

<400> 3684

Met Gln Leu Ala Val Phe Ala Phe Ser Thr Leu Trp Leu Trp Leu Leu
1 10 15

Ala Met Pro Arg Leu Ser Val Gly Met Pro Tyr Gly Ser 20 25

<210> 3685 <211> 39 <212> PRT <213> Homo sapiens

Ser Leu Ile Cys Ile Tyr Tyr Leu Phe Ala Ile Ile Leu Tyr Arg Ile 20 25 30

Phe Trp Ile His Val Leu Ala 35

<210> 3686 <211> 30 <212> PRT <213> Homo sapiens <400> 3686

Met Ala Phe Phe Lys Val Ser Tyr His Phe Leu Ile Ala Leu Leu Thr 1 5 10 15

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Tyr Asn Trp Thr Gln Pro Thr Leu Ser Ala Ser Val Asn Ser
                                 25
             20
<210> 3687
<211> 38
<212> PRT
<213> Homo sapiens
<400> 3687
Met Ala Arg Ala Asp Trp Val Leu Ser Leu Leu Leu Tyr Asn His Ile
Thr Ala Leu Pro Cys Ile Phe Ser Ser Lys Asn Gly Asp Tyr Leu Leu
                                 25
Cys Gly Ser Val Cys Arg
         35
<210> 3688
<211> 6
<212> PRT
<213> Homo sapiens
<400> 3688
Met Phe Ile Ile Lys Ile
<210> 3689
<211> 22
<212> PRT
<213> Homo sapiens
<400> 3689
His Cys Leu His Gln Lys Gln Phe Leu Phe Phe Leu Ile Leu Leu
Leu Leu Tyr Leu Lys Phe
            20
<210> 3690
<211> 28
<212> PRT
<213> Homo sapiens
<400> 3690
Pro Arg Thr Pro Cys Asn Val Gly Arg Pro Ala Leu Ser Ser Met Ala
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Leu Thr Ser Cys Ser Gly Arg Thr Ser Ser Pro Gly

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<210> 3691
<211> 16
<212> PRT
<213> Homo sapiens
<400> 3691
Met Gly Ser Ser Arg Gly Arg Glu Ala Ser Trp Gly Leu Pro Leu Gly
10
15
```

Tyr Ser Leu Phe Asn Cys Val Glu Phe 20 25

<210> 3695

<211> 40

<212> PRT

<213> Homo sapiens

<400> 3695

Met Ala Cys Val Ile Leu Gly Phe Cys Val Phe Trp Trp Val Ser Phe 1 5 10 15

Leu Gly Ser Pro Asp Leu Leu Gly Pro Val Leu Ser Ala Asn Pro 20 25 30

Ala Ser Phe Thr Cys Pro Ala His 35

<210> 3696

<211> 36

<212> PRT

<213> Homo sapiens

<400> 3696

Met Trp Val Arg Glu Gly Ile Trp Phe Cys Tyr Leu Ala Val Val Phe 1 5 10 15

Ser His Pro Ser Phe Leu Thr Ile Lys Ser His Leu Gly Leu Glu Lys
20 25 30

Lys Lys Lys 35

<210> 3697

<211> 433

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (298)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3697

Met Ala Thr Leu Phe Thr Ile Trp Cys Thr Leu Cys Asp Arg Ala Tyr 1 5 10 15

Pro Ser Asp Cys Pro Glu His Gly Pro Val Thr Phe Val Pro Asp Thr
20 25 30

Pro Ile Glu Ser Arg Ala Arg Leu Ser Leu Pro Lys Gln Leu Val Leu 35 40 45

Arg Gln Ser Ile Val Gly Ala Glu Val Gly Val Trp Thr Gly Glu Thr 50 55 60

Ile Pro Val Arg Thr Cys Phe Gly Pro Leu Ile Gly Gln Gln Ser His Ser Met Glu Val Ala Glu Trp Thr Asp Lys Ala Val Asn His Ile Trp 90 Lys Ile Tyr His Asn Gly Val Leu Glu Phe Cys Ile Ile Thr Thr Asp 100 105 Glu Asn Glu Cys Asn Trp Met Met Phe Val Arg Lys Ala Arg Asn Arg 115 120 125 Glu Glu Gln Asn Leu Val Ala Tyr Pro His Asp Gly Lys Ile Phe Phe 135 Cys Thr Ser Gln Asp Ile Pro Pro Glu Asn Glu Leu Leu Phe Tyr Tyr Ser Arg Asp Tyr Ala Gln Gln Ile Gly Val Pro Glu His Pro Asp Val 170 His Leu Cys Asn Cys Gly Lys Glu Cys Asn Ser Tyr Thr Glu Phe Lys Ala His Leu Thr Ser His Ile His Asn His Leu Pro Thr Gln Gly His Ser Gly Ser His Gly Pro Ser His Ser Lys Glu Arg Lys Trp Lys Cys 215 Ser Met Cys Pro Gln Ala Phe Ile Ser Pro Ser Lys Leu His Val His Phe Met Gly His Met Gly Met Lys Pro His Lys Cys Asp Phe Cys Ser 250 Lys Ala Phe Ser Asp Pro Ser Asn Leu Arg Thr His Leu Lys Ile His Thr Gly Gln Lys Asn Tyr Arg Cys Thr Leu Cys Asp Lys Ser Phe Thr 280 Gln Lys Ala His Leu Glu Ser His Met Xaa Ile His Thr Gly Glu Lys Asn Leu Lys Cys Asp Tyr Cys Asp Lys Leu Phe Met Arg Arg Gln Asp Leu Lys Gln His Val Leu Ile His Thr Gln Glu Arg Gln Ile Lys Cys Pro Lys Cys Asp Lys Leu Phe Leu Arg Thr Asn His Leu Lys Lys His 345 Leu Asn Ser His Glu Gly Lys Arg Asp Tyr Val Cys Glu Lys Cys Thr Lys Ala Tyr Leu Thr Lys Tyr His Leu Thr Arg His Leu Lys Thr Cys 375 380

Lys Gly Pro Thr Ser Ser Ser Ser Ala Pro Glu Glu Glu Glu Glu Asp 385 390 395 400

Asp Ser Glu Glu Glu Asp Leu Ala Asp Ser Val Gly Thr Glu Asp Cys 405 410 415

Arg Ile Asn Ser Ala Val Tyr Ser Ala Asp Glu Ser Leu Ser Ala His
420 425 430

Lys

<210> 3698

<211> 38

<212> PRT

<213> Homo sapiens

<400> 3698

Met Gly Ser Pro Met Thr Trp Ser Cys Arg Ser Leu Ser Ser Leu Trp 1 5 10 15

Trp Pro Pro Val Ser Ser Ala Arg His Arg Arg Cys Ser Arg Arg Gly

Asp Pro Gly Thr Arg Gly 35

<210> 3699

<211> 39

<212> PRT

<213> Homo sapiens

<400> 3699

Met Val Met Phe Leu Ser Leu Ser Leu Trp Ile Asn Pro Val Ile Gly
1 10 15

Lys Asp Met Thr Ile Trp Arg Trp Asn Thr Tyr Arg Lys Asp Gln Ile 20 25 30

Ser Tyr Leu Leu Phe Phe His 35

<210> 3700

<211> 28

<212> PRT

<213> Homo sapiens

<400> 3700

Met Ile Gly Leu Thr Phe Ala Ser Thr Ser Asp Phe Ala Leu Leu Ser 1 5 10 15

Lys Phe Asn Thr Phe Gln Leu Leu Met Cys Val Leu 20 25

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:59
TIJ
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<210> 3701
<211> 31
<212> PRT
<213> Homo sapiens
<400> 3701
Met Gly Lys Gly Ile Ala Val Leu Ala Leu Trp Tyr Ala Ala Thr Ser
Leu Gly Ser Arg Pro Cys Pro Cys Pro Thr Thr His Ser Gln Leu
                                  25
<210> 3702
<211> 17
<212> PRT
<213> Homo sapiens
<400> 3702
Met Leu Leu Phe Leu Ile Val Thr Leu Leu Met Asn Val Arg Ser Leu
                                      10
Gly
<210> 3703
<211> 50
<212> PRT
<213> Homo sapiens
<400> 3703
Met Phe Leu Leu Phe Pro Gln Thr Ser Leu Thr Val Leu Phe Val Ser
Cys Pro Val Glu Gly Ser Arg Val His Ile Leu Leu Ser Val Asn Met
                                  25
Pro Trp Asn Leu His Lys Gly Arg Thr Met Cys Ser Phe Phe Gln Gln
                              40
Leu Phe
     50
<210> 3704
 <211> 65
 <212> PRT
 <213> Homo sapiens
 <400> 3704
Met His Arg Leu Ala Leu Trp Leu Leu Gly Leu Trp Gly Val Met Trp
 Ser His Thr Ser Ala Leu Leu Ala Leu Val Lys Leu Trp Lys Gly Arg
```

Leu Gly Lys Ala Gly Thr Arg Lys Lys Arg Lys Arg Gln Gln Glu 35 40 45

Ser Met Gln Val Gly Lys Asn Leu Val Trp Arg Ala Gln Gln Arg Lys 50 55 60

Arg 65

<210> 3705

<211> 34

<212> PRT

<213> Homo sapiens

<400> 3705

Met Glu Arg Val Gly Arg Asn Leu Thr Ala Leu Arg Phe Leu Leu Phe $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$

Val Leu Ile Leu Arg Leu Leu Lys Ile Ile Phe Ile Cys Ser Val Tyr 20 25 30

Tyr Glu

<210> 3706

<211> 43

<212> PRT

<213> Homo sapiens

<400> 3706

Met Cys Glu Ser Thr Glu Leu Asn Met Thr Phe His Leu Phe Ile Val 1 5 10 15

Ala Leu Ala Gly Ala Gly Ala Arg Asn Ser Asp Arg Asn Thr Thr Arg

Val Asn Gly Ser Gln Pro Cys Ser Asp Pro Gln 35 40

<210> 3707

<211> 55

<212> PRT

<213> Homo sapiens

<400> 3707

Met Thr Gln Lys Asp Gly Ile Cys Lys Asp Gln Leu Leu Phe Ala Leu 1 5 10 15

Leu Ile Val Cys Asn Ala Val Tyr Ser Asn Thr Trp Ser Phe Ser Ser 20 25 30

Gly Ser Gly Met Trp Ile Asn Leu Thr Asn Gln Asp Pro Ser Leu Asn 35 40 45

Val Asn Thr Thr Asn Tyr Thr

50 55

```
<210> 3708
<211> 24
<212> PRT
<213> Homo sapiens

<400> 3708
Met Asn Cys Lys Lys Gln Leu Leu Thr Asp Ile Phe Leu Leu Phe
```

Leu Gly Gly Phe Phe Phe Phe

20

```
<210> 3709
<211> 53
<212> PRT
<213> Homo sapiens
```

<400> 3709

Met Arg Phe Leu Ala His Val Leu Cys Ser Phe Ser Val Val Phe Leu
1 5 10 15

His Leu Lys Asn Ser His Gly Ser Met Phe Tyr Lys Met Asn Tyr Gln 20 25 30

Arg Asn Arg Asp Gly Pro Arg Phe Ser Glu Met Val Pro Cys Asp Gln 35 40 45

Val Leu Leu Phe Gly 50

```
<210> 3710
<211> 35
<212> PRT
<213> Homo sapiens
<400> 3710
```

Met Asp Leu Phe Cys Ser Phe Leu Pro Ser Leu Leu Ala Ile Met Phe 1 5 10 15

Leu Cys Pro Pro Val Leu His Phe Met Gly Tyr His Val Gln Gln 20 25 30

Leu Arg Arg 35

```
<210> 3711
<211> 11
<212> PRT
<213> Homo sapiens
<400> 3711
```

Met Ser His Cys Val Trp Ser Leu Ala Val Ser 1 5 10

<210> 3712

<211> 28

<212> PRT

<213> Homo sapiens

<400> 3712

Met Pro Glu Trp Trp Gly Gln Met Leu Trp Thr Leu Gly Pro Ala Ala 1 5 10 15

Leu Pro Leu Leu Ala Gly Arg Cys Thr Arg Glu Val \$20\$

<210> 3713

<211> 38

<212> PRT

<213> Homo sapiens

<400> 3713

Met Phe Gly Asn Ser Ser Cys Ser Thr Tyr Leu Leu Trp Val Ser Leu
1 5 10 15

Phe Asn Phe Gly His Ser Ser Glu Cys Ile Met Ile Ser Cys Tyr Gly 20 25 30

Phe Lys Phe Ala Phe Ser 35

<210> 3714

<211> 66

<212> PRT

<213> Homo sapiens

<400> 3714

Met Cys Cys Pro Ser Leu Leu Lys Phe Tyr Phe Arg Phe Ser Ile Gly
1 5 10 15

Tyr Leu Phe Cys Phe Leu Tyr Phe Phe Ser Leu Ser Leu Pro Pro Ser 20 25 30

Arg Pro Pro Arg Pro Ile Pro Phe Leu Pro Leu Asp Phe His Pro Leu 35 40 45

Gly Cys Leu Ala His Leu Tyr Ala Pro Ala Leu Gly Thr Gly Pro Asn 50 55 60

Thr Trp

65

<210> 3715

<211> 36

```
<212> PRT
<213> Homo sapiens
<400> 3715
Met Phe Cys His Cys Ile Val Cys Leu Leu Val Leu Trp Ser Ser
Leu Pro Phe Phe Ile Pro Ser Phe Leu Leu Leu Lys Val Ile Leu Ser
                                 25
Cys Gly Met Ile
         35
<210> 3716
<211> 25
<212> PRT
<213> Homo sapiens
<400> 3716
Met Met Thr Leu Gly Leu Ser Leu Phe Leu Phe Phe Cys Phe Val Gly
Cys Glu Phe Glu Arg Phe Cys Asp Lys
             20
<210> 3717
<211> 38
<212> PRT
<213> Homo sapiens
<400> 3717
Met Asp Phe Thr Lys Leu Leu Thr Tyr Thr Phe Gly Phe Ala Val Phe
Ile Val Leu Gly Lys Asn Cys Gly Phe Lys Asn Tyr Ser Leu Ile Lys
Leu Leu Lys Lys Lys Lys
         35
<210> 3718
<211> 33
<212> PRT
<213> Homo sapiens
<400> 3718
Met Phe Ile Gly Asp Ser Ala Tyr Ile Phe Ile Thr Tyr Leu Leu Phe
Trp Leu Leu Ser Asn Ile Leu Ser Phe Val Phe Ala Asn Ser Val His
```

Glu

20

25

145

<210> 3719

```
<211> 32
<212> PRT
<213> Homo sapiens
<400> 3719
Met Leu Lys Ile Leu Met Cys Lys Ser Pro Leu Ser Pro His Leu Phe
Tyr Lys Leu Leu Trp Leu Glu Gly Phe Cys Phe Trp Leu Leu Ser Gly
<210> 3720
<211> 406
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (254)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 3720
Met Ile Arg Ile Ala Ala Leu Asn Ala Ser Ser Thr Ile Glu Asp Asp
His Glu Gly Ser Phe Lys Ser His Lys Thr Gln Thr Lys Glu Ala Gln
Glu Ala Glu Ala Phe Ala Leu Tyr His Lys Ala Leu Asp Leu Gln Lys
His Asp Arg Phe Glu Glu Ser Ala Lys Ala Tyr His Glu Leu Leu Glu
Ala Ser Leu Leu Arg Glu Ala Val Ser Ser Gly Asp Glu Lys Glu Gly
Leu Lys His Pro Gly Leu Ile Leu Lys Tyr Ser Thr Tyr Lys Asn Leu
Ala Gln Leu Ala Ala Gln Arg Glu Asp Leu Glu Thr Ala Met Glu Phe
                                 105
            100
Tyr Leu Glu Ala Val Met Leu Asp Ser Thr Asp Val Asn Leu Trp Tyr
        115
                             120
Lys Ile Gly His Val Ala Leu Arg Leu Ile Arg Ile Pro Leu Ala Arg
                                             140
                         135
```

His Ala Phe Glu Glu Gly Leu Arg Cys Asn Pro Asp His Trp Pro Cys

Leu Asp Asn Leu Ile Thr Val Leu Tyr Thr Leu Ser Asp Tyr Thr Thr

150

155

160

170 165 175 Cys Leu Tyr Phe Ile Cys Lys Ala Leu Glu Lys Asp Cys Arg Tyr Ser 185 180 Lys Gly Leu Val Leu Lys Glu Lys Ile Phe Glu Glu Gln Pro Cys Leu 200 Arg Lys Asp Ser Leu Arg Met Phe Leu Lys Cys Asp Met Ser Ile His 210 215 220 Asp Val Ser Val Ser Ala Ala Glu Thr Gln Ala Ile Val Asp Glu Ala 235 Leu Gly Leu Arg Lys Lys Arg Gln Ala Leu Ile Val Arg Xaa Lys Glu

Pro Asp Leu Lys Leu Val Gln Pro Ile Pro Phe Phe Thr Trp Lys Cys

Leu Gly Glu Ser Leu Leu Ala Met Tyr Asn His Leu Thr Thr Cys Glu 280

Pro Pro Arg Pro Ser Leu Gly Lys Arg Ile Asp Leu Ser Asp Tyr Gln 295

Asp Pro Ser Gln Pro Leu Glu Ser Ser Met Val Val Thr Pro Val Asn 315 305 310

Val Ile Gln Pro Ser Thr Val Ser Thr Asn Pro Ala Val Ala Val Ala 330

Glu Pro Val Val Ser Tyr Thr Ser Val Ala Thr Thr Ser Phe Pro Leu

His Ser Pro Gly Leu Leu Glu Thr Gly Ala Pro Val Gly Asp Ile Ser

Gly Gly Asp Lys Ser Lys Lys Gly Val Lys Arg Lys Lys Ile Ser Glu

Glu Ser Gly Glu Thr Ala Lys Arg Arg Ser Ala Arg Val Arg Asn Thr 390

Lys Cys Lys Lys Lys 405

<210> 3721

<211> 58

<212> PRT

<213> Homo sapiens

Met Pro Phe Cys Met Asn Ala Cys Glu Met Leu Leu Leu Cys Met

Ala Trp Leu Pro Trp Leu Ala Gly Ile Ser Ser Phe Val Val Phe Leu 25

```
Ser Ser Leu Cys Ile Thr Val Ser Phe Val Phe Leu Ala Cys Lys Leu
                             40
         35
Leu Glu Asp Lys Gly Met Ser Glu Ser Ile
                         55
<210> 3722
<211> 14
<212> PRT
<213> Homo sapiens
<400> 3722
Asn Ile Leu Phe Val Leu Ile Asp Ser Ile Leu Gly Ser Ser
                  5
<210> 3723
<211> 37
<212> PRT
<213> Homo sapiens
<400> 3723
Met Val Trp Ile Cys Val Leu Leu Gln Thr Leu Leu Arg His Ile Leu
                                      10
Arg Ser Met Glu Arg Asn Arg Val Asp Asp Lys Val Cys Val Val Phe
Thr Lys Glu Tyr Ser
         35
<210> 3724
<211> 410
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (404)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (409)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 3724
Gly Arg Leu Arg Asn Gly Ile Xaa Gly Ala Ala Gly Ile Pro Arg Ala
                   5
Asn Ala Ser Arg Thr Asn Phe Ser Ser His Thr Asn Gln Ser Gly Gly
```

			20				,	25					30		
Ser	Glu	Leu 35	Arg	Gln	Arg	Glu	Gly 40	Gln	Arg	Phe	Gly	Ala 45	Ala	His	Val
Trp	Glu 50	Asn	Gly	Ala	Arg	Ser 55	Asn	Val	Thr	Val	Arg 60	Asn	Thr	Asn	Gln
Arg 65	Leu	Glu	Pro	Ile	Arg 70	Leu	Arg	Ser	Thr	Ser 75	Asn	Ser	Arg	Ser	Arg 80
Ser	Pro	Ile	Gln	Arg 85	Gln	Ser	Gly	Thr	Val 90	Tyr	His	Asn	Ser	Gln 95	Arg
Glu	Ser	Arg	Pro 100	Val	Gln	Gln	Thr	Thr 105	Arg	Arg	Ser	Val	Arg 110	Arg	Arg
Gly	Arg	Thr 115	Arg	Val	Phe	Leu	Glu 120	Gln	Asp	Arg	Glu	Arg 125	Glu	Arg	Arg
Gly	Thr 130	Ala	Tyr	Thr	Pro	Phe 135	Ser	Asn	Ser	Arg	Leu 140	Val	Ser	Arg	Ile
Thr 145	Val	Glu	Glu	Gly	Glu 150	Glu	Ser	Ser	Arg	Ser 155	Ser	Thr	Ala	Val	Arg 160
Arg	His	Pro	Thr	Ile 165	Thr	Leu	Asp	Leu	Gln 170	Val	Arg	Arg	Ile	Arg 175	Pro
Gly	Glu	Asn	Arg 180	Asp	Arg	Asp	Ser	Ile 185	Ala	Asn	Arg	Thr	Arg 190	Ser	Arg
Val	Gly	Leu 195	Ala	Glu	Asn	Thr	Val 200	Thr	Ile	Glu	Ser	Asn 205	Ser	Gly	Gly
Phe	Arg 210	Arg	Thr	Ile	Ser	Arg 215	Leu	Glu	Arg	Ser	Gly 220	Ile	Arg	Thr	Туr
Val 225	Ser	Thr	Ile	Thr	Val 230	Pro	Leu	Arg	Arg	Ile 235	Ser	Glu	Asn	Glu	Leu 240
Val	Glu	Pro	Ser	Ser 245	Val	Ala	Leu	Arg	Ser 250	Ile	Leu	Arg	Gln	Ile 255	Met
Thr	Gly	Phe	Gly 260	Glu	Leu	Ser	Ser	Leu 265	Met	Glu	Ala	Asp	Ser 270	Glu	Ser
Glu	Leu	Gln 275	Arg	Asn	Gly	Gln	His 280	Leu	Pro	Asp	Met	His 285	Ser	Glu	Lev
Ser	Asn 290	Leu	Gly	Thr	Asp	Asn 295	Asn	Arg	Ser	Gln	His 300	Arg	Glu	Gly	Ser
Ser 305		Asp	Arg	Gln	Ala 310	Gln	Gly	Asp	Ser	Thr 315	Glu	Met	His	Gly	Glu 320
Asn	Glu	Thr	Thr	Gln 325	Pro	His	Thr	Arg	Asn 330	Ser	Asp	Ser	Arg	Gly 335	G13

Arg Gln Leu Arg Asn Pro Asn Asn Leu Val Glu Thr Gly Thr Leu Pro 340 345 350

Ile Leu Arg Leu Ala His Phe Phe Leu Leu Asn Glu Ser Asp Asp Asp 355 360 365

Asp Arg Ile Arg Gly Leu Thr Lys Glu Gln Ile Asp Asn Leu Ser Thr 370 380

Arg His Tyr Glu His Asn Ser Ile Asp Ser Glu Leu Gly Lys Ile Cys 385 390 395 400

Ser Val Ser Xaa Ala Glu Phe Trp Xaa Pro 405 410

<210> 3725 <211> 37 <212> PRT

<213> Homo sapiens

<400> 3725

Met Ala Asp Ala Thr Cys Thr Leu Leu Val Ile Phe Cys Val Met Gly
1 5 10 15

Tyr Glu Met Val His Arg Lys Lys Pro Glu Lys Tyr Ala Lys Val Arg
20 25 30

Phe Ile Leu Arg Val

<210> 3726 <211> 26

<212> PRT

<213> Homo sapiens

<400> 3726

Met Asp Leu Val Glu Ala Phe Asn His Ser Arg Gly Pro Gln Val Met
1 5 10 15

Leu Ile Ser Leu Leu Ala Gly Val Leu Val
20 25

<210> 3727

<211> 35

<212> PRT

<213> Homo sapiens

<400> 3727

Met Trp Ser Arg Met Val Arg Ser Leu Trp Tyr Ile Met Phe Thr Trp 1 5 10 15

Gln Gly Gly Ser Cys Val Leu Ser Gly Thr Gly Ser Leu Leu Ser Tyr 20 25 30

Thr Arg Thr

35

<210> 3728

<211> 224

<212> PRT

<213> Homo sapiens

<400> 3728

Met Leu Arg Ala Pro Gly Cys Leu Leu Arg Thr Ser Val Ala Pro Ala 1 5 10 15

Ala Ala Leu Ala Ala Leu Leu Ser Ser Leu Ala Arg Cys Ser Leu 20 25 30

Leu Glu Pro Arg Asp Pro Val Ala Ser Ser Leu Ser Pro Tyr Phe Gly 35 40 45

Thr Lys Thr Arg Tyr Glu Asp Val Asn Pro Val Leu Leu Ser Gly Pro 50 55 60

Glu Ala Pro Trp Arg Asp Pro Glu Leu Leu Glu Gly Thr Cys Thr Pro 65 70 75 80

Val Gln Leu Val Ala Leu Ile Arg His Gly Thr Arg Tyr Pro Thr Val 85 90 95

Lys Gln Ile Arg Lys Leu Arg Gln Leu His Gly Leu Leu Gln Ala Arg 100 105 110

Gly Ser Arg Asp Gly Gly Ala Ser Ser Thr Gly Ser Arg Asp Leu Gly
115 120 125

Ala Ala Leu Ala Asp Trp Pro Leu Trp Tyr Ala Asp Trp Met Asp Gly
130 135 140

Gln Leu Val Glu Lys Gly Arg Gln Asp Met Arg Gln Leu Ala Leu Arg 145 150 155 160

Leu Ala Ser Leu Phe Pro Ala Leu Phe Ser Arg Glu Asn Tyr Gly Arg 165 170 175

Cys Gly Ser Ser Pro Val Pro Ser Thr Ala Ala Trp Ile Ala Ala Pro 180 185 190

Pro Ser Cys Arg Gly Cys Gly Ser Thr Thr Thr Leu Ala Cys Arg Arg 195 200 205

Arg Thr Ser Gln Ile Trp Ser Leu Asp Leu Gln Gln Leu Met Ile Asn 210 215 220

<210> 3729

<211> 11

<212> PRT

<213> Homo sapiens

<400> 3729

Met Trp Pro Trp Asp Met Val Phe Ser Trp Ser 5

```
<210> 3730
<211> 51
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 3730
```

Met Thr Val Val Thr Ala Leu Leu Leu Ile Ile Leu Gln Thr Arg Asn

Leu Asn Ser Gly Gln Ile Ser Val Lys Asn Trp Gln Met Phe Phe Met

Arg Thr Leu Ile Met Asn Leu Ser Ala Ala Phe Gln Lys Val Arg Cys 40

Lys Met Xaa 50

<210> 3731 <211> 40 <212> PRT <213> Homo sapiens

<400> 3731

Met Phe Trp Ile Pro Trp Val Leu Val Leu Cys Ser Ser Leu Pro Thr

Cys Ala Gln Asp Ala Ala Leu Gly Ser Ser Thr His Gly Ser Phe Cys

Trp Asp Gly Val Thr Tyr Gly Phe 35

<210> 3732 <211> 34 <212> PRT <213> Homo sapiens <400> 3732

Met Leu Ser Gln Cys Leu Leu Gln Phe Val Val Trp Val Phe Phe 1

Leu Lys Pro His Asn Asn Phe Gly Lys Gln Cys Met Gly Arg Thr Cys

Val Cys

```
<210> 3733
<211> 25
<212> PRT
<213> Homo sapiens
<400> 3733
Met Tyr Phe Cys Asp Thr Val Ile Met Phe Cys Ile Cys Leu Ile Leu
Ala Asp Leu Gln Tyr Ala Ile Lys Val
             20
<210> 3734
<211> 45
<212> PRT
<213> Homo sapiens
<400> 3734
Met Arg Trp Thr Cys Leu Leu Gly Thr Pro Gly His Pro Leu Phe Phe
Leu Leu Cys Ala Trp Ser Ile Met Ser Thr Pro Ala Asp Pro Trp Lys
Arg Lys Cys Leu Cys Cys Arg Val Leu His Gly His Glu
                              40
<210> 3735
<211> 36
<212> PRT
<213> Homo sapiens
<400> 3735
Met Leu Tyr Leu Asn Met Asn Gly Lys Phe Trp Phe Leu Ala Phe Thr
Phe Tyr Tyr Leu Asn Phe Ile Asn Ala Asn Ile Ser Phe Val Ile Ser
Tyr Ser Ile Ser
         35
<210> 3736
<211> 36
<212> PRT
<213> Homo sapiens
Met Leu Tyr Leu Asn Met Asn Gly Lys Phe Trp Phe Leu Ala Phe Thr
                   5
Phe Tyr Tyr Leu Asn Phe Ile Asn Ala Asn Ile Ser Phe Val Ile Ser
```

20 25 30

Tyr Ser Ile Ser 35

<210> 3737

<211> 36

<212> PRT

<213> Homo sapiens

<400> 3737

Met Leu Tyr Leu Asn Met Asn Gly Lys Phe Trp Phe Leu Ala Phe Thr 1 5 10 15

Phe Tyr Tyr Leu Asn Phe Ile Asn Ala Asn Ile Ser Phe Val Ile Ser 20 25 30

Tyr Ser Ile Ser 35

<210> 3738

<211> 70

<212> PRT

<213> Homo sapiens

<400> 3738

Met Pro Trp Cys Pro Cys Trp Thr Val Leu Thr Ser Lys Pro Phe Leu 1 5 10 15

Ser Met Leu Pro Ala Cys Ser Ala Trp Pro Arg Ser Thr Phe Ser Ser 20 25 30

Arg Thr Ser Val Trp Lys Ser Leu Arg Ser Pro Arg Leu Ser Trp Arg
35 40 45

Asn Thr Thr Arg Leu Gln Cys Phe Ser Pro Ser Asn Ser Cys Ser Gly 50 60

Met Ser Tyr Phe Ala Ser 65 70

<210> 3739

<211> 45

<212> PRT

<213> Homo sapiens

<400> 3739

Met Gly Val Phe Asp Pro Thr Glu Ile His Asn Arg Gly Gln Leu Lys 1 5 10 15

Ser His Met Lys Glu Ala Met Ile Lys Leu Gly Phe His Leu Leu Cys 20 25 30

Phe Phe Met Tyr Leu Tyr Ser Gly Ser Asn Cys Pro Cys
35 40 45

```
<210> 3740
<211> 29
<212> PRT
<213> Homo sapiens
<400> 3740
Met Val Leu Val Leu Leu Cys Val Gly Pro Leu Gly Thr Gln Ala Gly
Ala Asn Gly Ile Trp Ala Glu Leu Thr Glu Phe Leu Glu
<210> 3741
<211> 58
<212> PRT
<213> Homo sapiens
<400> 3741
Met Leu Leu Leu Val Ser Val Phe Ser Pro Val Leu Phe Ser Arg Ser
                                      10
Ser Thr Val Glu Met Asp Val Glu Pro Phe Cys Leu Val Leu Ser Ser
Ala Phe Pro Glu Ile Thr Pro Pro Ile Ser Cys Leu Cys Leu Asn Met
         35
Phe Phe Ser Leu Leu Arg Ser Pro His Ser
<210> 3742
<211> 33
<212> PRT
<213> Homo sapiens
<400> 3742
Met Val Cys Ala Cys Leu Leu Ser Leu Arg Leu Gly Leu Leu Thr Glu
Cys Glu Tyr Lys Tyr Pro Tyr Leu Gly Glu Lys Tyr Ile Phe Lys Gly
```

Trp

```
<210> 3743
<211> 33
<212> PRT
<213> Homo sapiens
<400> 3743
Met Phe Cys Ser Leu Leu Phe Ser Gln Tyr Val Gln Trp Leu Leu Ala
```

1 5 10 15

Gln Asn Arg Gln Tyr Ser Leu Thr Glu Cys Tyr Trp Thr Leu Ser Val 20 25 30

Tyr

<210> 3744

<211> 290

<212> PRT

<213> Homo sapiens

<400> 3744

Met Ala Val Thr Ala Gln Val Lys Ser Leu Thr Gln Lys Val Gln Ala 1 5 10 15

Gly Ala Tyr Pro Thr Glu Lys Gly Leu Ser Phe Leu Glu Val Lys Asp 20 25 30

Gln Leu Leu Met Tyr Leu Met Asp Leu Thr His Leu Ile Leu Asp 35 40 45

Lys Ala Ser Gly Gly Ser Leu Gln Gly His Asp Ala Val Leu Arg Leu 50 55 60

Val Glu Ile Arg Thr Val Leu Glu Lys Leu Arg Pro Leu Asp Gln Lys
65 70 75 80

Leu Lys Tyr Gln Ile Asp Lys Leu Ile Lys Thr Ala Val Thr Gly Ser 85 90 95

Leu Ser Glu Asn Asp Pro Leu Arg Phe Lys Pro His Pro Ser Asn Met
100 105 110

Met Ser Lys Leu Ser Ser Glu Asp Glu Glu Glu Asp Glu Ala Glu Asp 115 120 125

Asp Gln Ser Glu Ala Ser Gly Lys Lys Ser Val Lys Gly Val Ser Lys 130 135 140

Lys Tyr Val Pro Pro Arg Leu Val Pro Val His Tyr Asp Glu Thr Glu 145 150 155 160

Ala Glu Arg Glu Lys Lys Arg Leu Glu Arg Ala Lys Arg Ala Leu 165 170 175

Ser Ser Ser Val Ile Arg Glu Leu Lys Glu Gln Tyr Ser Asp Ala Pro 180 185 190

Glu Glu Ile Arg Asp Ala Arg His Pro His Val Thr Arg Gln Ser Gln 195 200 205

Glu Asp Gln His Arg Ile Asn Tyr Glu Glu Ser Met Met Val Arg Leu 210 215 220

Ser Val Ser Lys Arg Glu Lys Gly Arg Arg Lys Arg Ala Asn Val Met 225 230 235 240

Ser Ser Gln Leu His Ser Leu Thr His Phe Ser Asp Ile Ser Ala Leu 245 250 255

Thr Gly Gly Thr Val His Leu Asp Glu Asp Gln Asn Pro Ile Lys Lys 260 265 270

Arg Lys Lys Ile Pro Gln Lys Gly Arg Lys Lys Gly Phe Arg Arg 275 280 285

Arg Arg 290

<210> 3745

<211> 24

<212> PRT

<213> Homo sapiens

<400> 3745

Met Gly Gly Thr Pro Ser Thr Lys Cys Leu Val Thr Ser Ala Trp Ser 1 5 10 15

Gly Phe Ser Ala Cys Thr Pro Cys

<210> 3746

<211> 25

<212> PRT

<213> Homo sapiens

<400> 3746

Met Thr Arg Ser Leu Val Leu Arg Phe Lys Val Leu Leu Met Leu Gly
1 5 10 15

Leu Leu Ile Glu Val Ser Glu Glu Leu 20 25

<210> 3747

<211> 73

<212> PRT

<213> Homo sapiens

<400> 3747

Met Pro Ser Leu Trp Asp Arg Phe Ser Ser Ser Ser Thr Phe Gln Leu 1 5 10 15

Thr Leu Val Leu Arg Leu Asp Ser Arg Leu Trp Pro Lys Ile Gln Gly 20 25 30

Leu Phe Ser Ser Ala Asn Ser Pro Phe Leu Pro Gly Phe Ser Gln Ser 35 40 45

Leu Thr Leu Ser Thr Gly Phe Arg Val Ile Lys Lys Lys Leu Tyr Ser 50 55 60

Ser Glu Gln Leu Leu Ile Glu Glu Cys

65 70

<210> 3748

<211> 55

<212> PRT

<213> Homo sapiens

<400> 3748

Met Pro His Pro Pro Leu Pro Glu Thr Ser Leu Glu Ala Gln Leu Pro 1 5 10 15

Met Gly Leu Leu Gln Leu Leu Arg Cys Ser Val Gln Ala Trp Ser Pro 20 25 30

Pro Pro Ser Ser Phe Cys Pro Gly Ser Glu Pro Arg Ser Ala Ser Ala 35 40 45

His Trp Gly Tyr Trp Trp Pro 50 55

<210> 3749

<211> 27

<212> PRT

<213> Homo sapiens

<400> 3749

Met Pro Ile Ser Val Ser Ser Phe Cys Ala Ala Val Ile Val Gly Leu
1 5 10 15

Pro Val Ser Phe Glu Leu Trp Ala Leu Pro Gly 20 25

<210> 3750

<211> 33

<212> PRT

<213> Homo sapiens

<400> 3750

Met Ile Val Val Val Leu Trp Ile Asn Leu Cys Ser Trp Phe Cys Phe 1 5 10 15

Val Ser Pro Leu Pro Lys Cys Ser Phe Gln Tyr Tyr Thr Arg Lys Arg 20 25 30

Ser

<210> 3751

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE <222> (45) <223> Xaa equals any of the naturally occurring L-amino acids Met Val Leu Met Gly Ile Phe Phe Ser Thr Leu Phe Val Phe Met Asp 10 Ser Gly Thr Trp Ala Ser Ser Ile Phe Phe His Leu Met Thr Cys Val Leu Ser Leu Gly Val Val Leu Pro Trp Leu His Arg Xaa Ile Arg Arg Ile Pro Cys Ser Gly Phe Phe Ser Phe Ser Ser Arg Gln Thr Pro Ala Ser Thr Ser 65 <210> 3752 <211> 7 <212> PRT <213> Homo sapiens <400> 3752 Val Gly Ile Leu Cys Leu Trp <210> 3753 <211> 144 <212> PRT <213> Homo sapiens <400> 3753 Met Asp Val Arg Lys Leu Asp Phe Pro Ser Ala Ser Phe Asp Val Val

Leu Glu Lys Gly Thr Leu Asp Ala Leu Leu Ala Gly Glu Arg Asp Pro 25

Trp Thr Val Ser Pro Glu Gly Val His Thr Val Asp Gln Val Leu Ser 35

Glu Val Ser Arg Val Leu Val Pro Gly Gly Arg Phe Ile Ser Met Thr 55

Ser Ala Ala Pro His Phe Arg Thr Arg His Tyr Ala Gln Ala Tyr Tyr 70 65

Gly Trp Ser Leu Arg His Ala Thr Tyr Gly Ser Gly Phe His Phe His

Leu Tyr Leu Met His Lys Gly Gly Lys Leu Ser Val Ala Gln Leu Ala 100

Leu Gly Ala Gln Ile Leu Ser Pro Pro Arg Thr Pro Thr Ser Pro Cys

115 120 125

Phe Leu Gln Asp Ser Asp His Glu Asp Phe Leu Ser Ala Ile Gln Leu 130 135 140

<210> 3754

<211> 18

<212> PRT

<213> Homo sapiens

<400> 3754

Val Leu Cys Ser Leu Ser Cys Met Leu Lys Leu Gly Val Cys Trp Arg
1 5 10 15

Ala Ser

<210> 3755

<211> 96

<212> PRT

<213> Homo sapiens

<400> 3755

Met Glu Gly Thr Leu Trp Trp Pro Leu Arg Leu Ser Leu Phe Leu Ala 1 5 10 15

Gly Phe Pro Gly Ala Thr Trp Pro Ala Ala Val Gly Glu Val Leu Val
20 25 30

Gly Glu Cys Gln Ser Glu Pro Thr Gln Ala Thr Ser Trp Gln Trp Arg
35 40 45

His Ser His Pro Gly Gln Gly Gln Asp Leu Gly Ile Ser Ser Asp Leu 50 55 60

Ser Gly Gln Arg His Glu Val Arg Tyr Ala Leu Gly Ala Cys Ser Lys 65 70 75 80

Gly Asp Lys Glu Glu Gly Thr Ser Trp Trp Gly Val Glu Lys Asp Pro 85 90 95

<210> 3756

<211> 15

<212> PRT

<213> Homo sapiens

<400> 3756

Met Leu His Phe Cys Phe Ile Phe Tyr Phe Ser Leu Leu Cys Phe 1 5 10 15

<210> 3757

```
<211> 24
<212> PRT
<213> Homo sapiens
<400> 3757
Glu Lys Arg Arg Lys Lys Ala Arg Ser Thr Gly Asn Leu Gly Cys Gly
Thr Met Ser Arg Arg Met Arg Thr
             20
<210> 3758
<211> 148
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (128)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 3758
Met Ala Lys Phe Arg Arg Thr Cys Ile Ile Leu Ala Leu Phe Ile
Leu Phe Ile Phe Ser Leu Met Met Gly Leu Lys Met Leu Arg Pro Asn
Thr Ala Thr Phe Gly Ala Pro Phe Gly Leu Asp Leu Leu Pro Glu Leu
His Gln Arg Thr Ile His Leu Gly Lys Asn Phe Asp Phe Gln Lys Ser
Asp Arg Ile Asn Ser Glu Thr Asn Thr Lys Asn Leu Lys Ser Val Glu
Ile Thr Met Lys Pro Ser Lys Ala Ser Glu Leu Asn Leu Asp Glu Leu
Pro Pro Leu Asn Asn Tyr Leu His Val Phe Tyr Tyr Ser Trp Tyr Gly
Asn Pro Gln Phe Asp Gly Lys Tyr Ile His Trp Asn His Pro Val Xaa
        115
Glu His Trp Asp Pro Arg Ile Ala Lys Asn Tyr Pro Gln Gly Arg His
                        135
    130
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<210> 3759

145

Asn Pro Ser Arg

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<211> 14
<212> PRT
<213> Homo sapiens
<400> 3759
Met Pro Glu Ala His Gly Pro Ser Glu Gly Leu Trp Gly Thr
<210> 3760
<211> 36
<212> PRT
<213> Homo sapiens
<400> 3760
Met Tyr Ile Asn Ser Met Phe Ile Phe Phe Ser Ile Leu Ser Asp Thr
Val Leu Ala Ala Gly Leu Leu Lys Pro Ser Leu Val Val Ile Glu Ser
                                  25
Phe Pro Leu Leu
         35
<210> 3761
<211> 25
<212> PRT
<213> Homo sapiens
<400> 3761
Met Gly Leu His Leu Thr Phe Leu Val Ile Leu Val Asp Gln Met Pro
Leu Gly His Gln Ser Leu Leu Gln Asp
             20
<210> 3762
<211> 377
<212> PRT
<213> Homo sapiens
<400> 3762
Met Gly Leu Asn Glu Glu Gln Lys Glu Phe Gln Lys Val Ala Phe Asp
Phe Ala Ala Arg Glu Met Ala Pro Asn Met Ala Glu Trp Asp Gln Lys
                                  25
Glu Leu Phe Pro Val Asp Val Met Arg Lys Ala Ala Gln Leu Gly Phe
                              40
Gly Gly Val Tyr Ile Gln Thr Asp Val Gly Gly Ser Gly Leu Ser Arg
                          55
```

Leu Asp Thr Ser Val Ile Phe Glu Ala Leu Ala Thr Gly Cys Thr Ser

70

Thr Thr Ala Tyr Ile Ser Ile His Asn Met Cys Ala Trp Met Ile Asp Ser Phe Gly Asn Glu Glu Gln Arg His Lys Phe Cys Pro Pro Leu Cys Thr Met Glu Lys Phe Ala Ser Tyr Cys Leu Thr Glu Pro Gly Ser Gly Ser Asp Ala Ala Ser Leu Leu Thr Ser Ala Lys Lys Gln Gly Asp His 135 Tyr Ile Leu Asn Gly Ser Lys Ala Phe Ile Ser Gly Ala Gly Glu Ser Asp Ile Tyr Val Val Met Cys Arg Thr Gly Gly Pro Gly Pro Lys Gly 170 Ile Ser Cys Ile Val Val Glu Lys Gly Thr Pro Gly Leu Ser Phe Gly Lys Lys Glu Lys Lys Val Gly Trp Asn Ser Gln Pro Thr Arg Ala Val 200 Ile Phe Glu Asp Cys Ala Val Pro Val Ala Asn Arg Ile Gly Ser Glu Gly Gln Gly Phe Leu Ile Ala Val Arg Gly Leu Asn Gly Gly Arg Ile Asn Ile Ala Ser Cys Ser Leu Gly Ala Ala His Ala Ser Val Ile Leu 245 Thr Arg Asp His Leu Asn Val Arg Lys Gln Phe Gly Glu Pro Leu Ala Ser Asn Gln Tyr Leu Gln Phe Thr Leu Ala Asp Met Ala Thr Arg Leu 280 275 Val Ala Ala Arg Leu Met Val Arg Asn Ala Ala Val Ala Leu Gln Glu 295 Glu Arg Lys Asp Ala Val Ala Leu Cys Ser Met Ala Lys Leu Phe Ala 305 310 Thr Asp Glu Cys Phe Ala Ile Cys Asn Gln Ala Leu Gln Met His Gly 325 330 Gly Tyr Gly Tyr Leu Lys Asp Tyr Ala Val Gln Gln Tyr Val Arg Asp 340 345 Ser Arg Val His Gln Ile Leu Glu Gly Ser Asn Glu Val Met Arg Ile 360

<210> 3763

Leu Ile Ser Arg Ser Leu Leu Gln Glu

375

<211> 175

<212> PRT

<213> Homo sapiens

<400> 3763

Met Asp Leu Ala Gly Arg Lys Val Leu Leu Phe Val Ser Ala Ala Ile 1 5 10 15

Met Phe Ala Ala Asn Leu Thr Leu Gly Leu Tyr Ile His Phe Gly Pro 20 25 30

Arg Pro Leu Ser Pro Asn Ser Thr Ala Gly Leu Glu Ser Glu Ser Trp 35 40 45

Gly Asp Leu Ala Gln Pro Leu Ala Ala Pro Ala Gly Tyr Leu Thr Leu 50 55 60

Val Pro Leu Leu Ala Thr Met Leu Phe Ile Met Gly Tyr Ala Val Gly 65 70 75 80

Trp Gly Pro Ile Thr Trp Leu Leu Met Ser Glu Val Leu Pro Leu Arg 85 90 95

Ala Arg Gly Val Ala Ser Gly Leu Cys Val Leu Ala Ser Trp Leu Thr
100 105 110

Ala Phe Val Leu Thr Lys Ser Phe Leu Pro Val Val Ser Thr Phe Gly
115 120 125

Leu Gln Val Pro Phe Phe Phe Ala Ala Ile Cys Leu Val Ser Leu 130 135 140

Val Phe Thr Gly Cys Cys Val Pro Glu Thr Lys Gly Arg Ser Leu Glu 145 150 155 160

Gln Ile Glu Ser Phe Phe Arg Thr Gly Arg Arg Ser Phe Leu Arg 165 170 175

<210> 3764

<211> 31

<212> PRT

<213> Homo sapiens

<400> 3764

Met Trp Phe Met Ser Asn Ser Ala Val Leu Leu Trp Leu Trp Phe Lys 1 5 10 15

Phe Leu Met Phe Lys Val Asp Ala Val Phe Arg Arg Ala Phe Tyr 20 25 30

<210> 3765

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

Glu Glu Gly Leu Xaa Val Gly Arg Gly Ile Thr Glu Trp Lys Glu Ile 35 40 45

Glu Gly Ala Glu Ser Ala Phe Ala Val Met Ser 50 55

<210> 3766 <211> 48 <212> PRT

<213> Homo sapiens

<400> 3766

Met Lys Ala Thr Arg His Trp Ala Pro Val Leu Leu Glu Trp Thr Phe 1 5 10 15

Cys Lys Arg Pro Cys His His Leu Pro Arg Lys Phe Pro Ser Val Val 20 25 30

Leu Cys Ile Ile Ile Tyr Lys Ile Thr Tyr Phe Asp Asp Gln Arg Ser 35 40 45

<210> 3767 <211> 11 <212> PRT <213> Homo sapiens

<400> 3767
Met Arg Leu Leu Val Leu Phe Cys Phe Ile Asn

<210> 3768 <211> 417 <212> PRT <213> Homo sapiens

<400> 3768

Asn Ser Arg Val Asp Pro Arg Val Arg Gly Glu Ile Pro Ile Ser Ser 1 5 10 15

Ser Gln Thr Asn Arg Ser Ser Phe Asp Leu Leu Pro Arg Glu Phe Arg 20 25 30

Leu Val Glu Val His Asp Pro Pro Leu His Gln Pro Ser Ala Asn Lys 40 Pro Lys Pro Pro Thr Met Leu Asp Ile Pro Ser Glu Pro Cys Ser Leu Thr Ile His Thr Ile Gln Leu Ile Gln His Asn Arg Arg Leu Arg Asn Leu Ile Ala Thr Ala Gln Ala Gln Asn Gln Gln Gln Thr Glu Gly Val Lys Thr Glu Glu Ser Glu Pro Leu Pro Ser Cys Pro Gly Ser Pro Pro Leu Pro Asp Asp Leu Leu Pro Leu Asp Cys Lys Asn Pro Asn Ala Pro 120 Phe Gln Ile Arg His Ser Asp Pro Glu Ser Asp Phe Tyr Arg Gly Lys Gly Glu Pro Val Thr Glu Leu Ser Trp His Ser Cys Arg Gln Leu Leu 150 Tyr Gln Ala Val Ala Thr Ile Leu Ala His Ala Gly Phe Asp Cys Ala 170 Asn Glu Ser Val Leu Glu Thr Leu Thr Asp Val Ala His Glu Tyr Cys 185 Leu Lys Phe Thr Lys Leu Leu Arg Phe Ala Val Asp Arg Glu Ala Arg 200 Leu Gly Gln Thr Pro Phe Pro Leu Asn Gly Lys Glu Gln Gly Phe His Glu Val Gly Ile Gly Ser Val Leu Ser Leu Gln Lys Phe Trp Gln His Arg Ile Lys Asp Tyr His Ser Tyr Met Leu Gln Ile Ser Lys Gln Leu Ser Glu Glu Tyr Glu Arg Ile Val Asn Pro Glu Lys Ala Thr Glu Asp Ala Lys Pro Val Lys Ile Lys Glu Glu Pro Val Ser Asp Ile Thr Phe Pro Val Ser Glu Glu Leu Glu Ala Asp Leu Ala Ser Gly Asp Gln Ser 295 Leu Pro Met Gly Val Leu Gly Ala Gln Ser Glu Arg Phe Pro Ser Asn 305 315 310 320 Leu Glu Val Glu Ala Ser Pro Gln Ala Ser Ser Ala Glu Val Asn Ala 330 Ser Pro Leu Trp Asn Leu Ala His Val Lys Met Glu Pro Gln Glu Ser 340 345 Glu Glu Gly Asn Val Ser Gly His Gly Val Leu Gly Ser Asp Val Phe

355 360 365

Glu Glu Pro Ile Ser Gly Met Ser Glu Ala Gly Ile Pro Gln Ser Pro 370 375 380

Asp Asp Ser Asp Ser Ser Tyr Gly Ser His Ser Thr Asp Ser Leu Met 385 390 395 400

Gly Ser Ser Pro Val Phe Asn Gln Arg Cys Lys Lys Arg Met Arg Lys 405 410 415

Ile

<210> 3769

<211> 38

<212> PRT

<213> Homo sapiens

<400> 3769

Met Leu Ser Gly Tyr Pro Leu Ser Phe Phe Leu Leu Thr Ile Cys Leu 1 5 10 15

Val Val Leu Thr Ala Arg Gly Thr Glu Gly Leu Cys Pro Gly Ile Trp
20 25 30

Arg Pro Ala Leu Phe Thr 35

<210> 3770

<211> 19

<212> PRT

<213> Homo sapiens

<400> 3770

Met Leu Leu Phe Leu Leu Leu Leu Leu Ser Ser Leu Leu Ala Leu 1 5 10 15

Asn Asp Cys

<210> 3771

<211> 30

<212> PRT

<213> Homo sapiens

<400> 3771

Met Gly Ala Pro Thr Arg Lys Cys Ser Val Gln Trp Leu Ser Leu Ser 1 5 10 15

Val Pro Phe Leu Ser Ala Gln Cys Ser Ala Trp Arg Ser Ile 20 25 30

<210> 3774 <211> 44 <212> PRT <213> Homo sapiens <400> 3774

Met Ser Gly Cys Gly Ala Ser Gly Met Asn Leu Phe His Val Leu Cys 1 5 10 15

Trp Glu Leu Ala Leu Gly Asp His Asn Pro Gln Ser Pro Gln His Gln
20 25 30

Gly Lys Val Pro Gly Ala Gln Glu Gly Lys Pro Thr 35

<210> 3775 <211> 33 <212> PRT <213> Homo sapiens

Ser Ser Phe Val Trp Leu Phe Ser Phe Leu Cys Leu Phe Pro Val Lys 20 25 30

Leu

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<210> 3776
<211> 44
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 3776
Met Cys Pro Leu Pro Met Leu Xaa Ser Leu Leu Thr Phe Ser Phe Phe
                                      10
Ser Leu Ser Tyr Leu Leu Leu Trp Ser Ser Ser Asn Ser Ser Ser
Val His Leu Asn Ser Thr Phe Xaa Asp Pro Val Gly
<210> 3777
<211> 25
<212> PRT
<213> Homo sapiens
<400> 3777
His Leu Leu Ile Tyr Arg Ile Phe Ile Cys Thr Cys Phe His Leu Phe
Val Val Asn Phe Leu Arg Gln Thr His
             20
<210> 3778
<211> 38
<212> PRT
<213> Homo sapiens
<400> 3778
Met Glu Thr Ser Tyr Ile Thr Leu Leu Cys Val Phe Thr His Val Gly
  1
Phe Ala Val Leu Ala Leu Thr Ala His Gly Ser Ala Gly His Thr Pro
              20
Thr His Thr Asn Cys His
```

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<210> 3779
<211> 39
<212> PRT
<213> Homo sapiens
<400> 3779
Met Trp Ile Met Gly Leu Leu Tyr Ile Leu Val Phe Tyr Asn Phe Lys
                                     10
Ile Ser Ile Asn Ser Gln Lys Trp Glu Arg Lys Arg Gln Gln Asp Phe
                                 25
Gly Ser Trp Arg Gln Ile Tyr
         35
<210> 3780
<211> 32
<212> PRT
<213> Homo sapiens
<400> 3780
Met Gly Ala Gly Cys Val Ala Val Leu Leu Gly Gln Ala Ala Gly
Glu Thr Val Phe Pro Trp Pro Cys Pro Val Gly Pro Ser Met Met Ser
             20
<210> 3781
<211> 25
<212> PRT
<213> Homo sapiens
<400> 3781
Met Leu Phe Phe Leu Cys Phe Cys Phe Leu Gln Leu Phe His Val Tyr
                  5
                                     10
Lys Ala Asn Pro Phe Cys Ser Ala His
             20
<210> 3782
<211> 45
<212> PRT
<213> Homo sapiens
<400> 3782
Met Asp Ser Ile Leu Ile Phe Lys Trp Gln Lys Leu Gly Trp Gly Ala
Phe Lys Thr Cys Phe Leu Asn Cys Val Leu Thr Tyr Thr Ile Trp Cys
```

Phe Ile Cys Leu Phe Phe Leu Thr Met Ser Arg Arg Pro 35 40 45

<210> 3783

<211> 42 <212> PRT

<213> Homo sapiens

<400> 3783

Met Gln Lys Phe Val Val Ile Met Tyr Leu Cys Leu Val Thr Ile Met 1 5 10 15

Phe Tyr Arg Pro Thr Leu Val Pro Gly His Tyr Cys Lys Met Leu Lys 20 25 30

Ser Gln Glu Asn Phe Thr Glu Leu Lys Lys 35 40

<210> 3784

<211> 29

<212> PRT

<213> Homo sapiens

<400> 3784

Met Val Ile His Tyr Phe Leu Leu Phe Leu Val Lys Ser Trp Cys Val 1 5 10 15

Met Glu Ser Thr Cys Ser Met Cys Val Cys Leu Cys Val
20 25

<210> 3785

<211> 40

<212> PRT

<213> Homo sapiens

<400> 3785

Met Leu Ala Val Phe Leu Arg Ile Lys Leu Arg Leu Ala Gly Thr Val 1 5 10 15

Lys Pro Lys Phe Leu Phe Val Ser Phe Leu Ala Pro Leu Ile Phe Leu 20 25 30

Asp Phe Glu Lys Phe Thr Val Trp 35 40

<210> 3786

<211> 102

<212> PRT

<213> Homo sapiens

<400> 3786

Met Gly Leu Arg Asn Ile Leu Lys Val Cys Cys Thr His Asp Ile Thr 1 5 10 15

Thr Ile Ser Ile Pro Leu Leu Leu Val His Asp Met Ser Glu Glu Met 20 25 30

Thr Ile Pro Trp Cys Leu Arg Arg Ala Glu Leu Val Phe Lys Cys Val
35 40 45

Lys Gly Phe Met Met Glu Met Ala Ser Trp Asp Gly Gly Ile Ser Arg 50 55 60

Thr Val Gln Phe Leu Val Pro Gln Ser Ile Ser Glu Glu Met Phe Tyr 65 70 75 80

Gln Leu Ser Asn Met Leu Pro Gln Ile Phe Arg Val Ser Ser Thr Leu 85 90 95

Thr Leu Thr Ser Lys His
100

<210> 3787

<211> 102

<212> PRT

<213> Homo sapiens

<400> 3787

Met Gly Leu Arg Asn Ile Leu Lys Val Cys Cys Thr His Asp Ile Thr $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$

Thr Ile Ser Ile Pro Leu Leu Leu Val His Asp Met Ser Glu Glu Met 20 25 30

Thr Ile Pro Trp Cys Leu Arg Arg Ala Glu Leu Val Phe Lys Cys Val

Lys Gly Phe Met Met Glu Met Ala Ser Trp Asp Gly Gly Ile Ser Arg 50 55 60

Thr Val Gln Phe Leu Val Pro Gln Ser Ile Ser Glu Glu Met Phe Tyr 65 70 75 80

Gln Leu Ser Asn Met Leu Pro Gln Ile Phe Arg Val Ser Ser Thr Leu 85 90 95

Thr Leu Thr Ser Lys His 100

<210> 3788

<211> 14

<212> PRT

<213> Homo sapiens

<400> 3788

Met Val Pro Ser Glu Ala Cys Pro Leu Val Cys Thr Leu Val 1 5 10 <210> 3789 <211> 57

<212> PRT

<213> Homo sapiens

<400> 3789

Met Trp Arg Arg Asp Gln Ser Leu Leu Leu Val Ser Leu Gln Leu Pro
1 5 10 15

Phe Ser Pro Val Ser Gly Thr Pro Arg Phe Met Pro Ala Val Gln Pro 20 25 30

Cys Gln Pro His Arg Leu Asn Thr Pro Ser Asn Ser Cys Ser Val Phe 35 40 45

Leu Gly Gly Gly Ala Pro Arg Gly Asn 50 55

<210> 3790

<211> 122

<212> PRT

<213> Homo sapiens

<400> 3790

Val Ala Glu Tyr Arg Glu Trp Gly Arg Ala Arg Ala Gly Gly Arg Asp 1 5 10 15

Gln Gly Leu Asp Pro Leu Ser Ser Phe Ser Leu Gly Arg Thr Gly Gln 20 25 30

Leu Pro Pro Thr Leu Thr Pro Leu Leu Pro Val Asn Gly Ala Val Arg
35 40 45

Glu Glu Ser Ile His Cys Lys Ser Val Glu Glu Ile Ser Thr Leu Val 50 55 60

Gln Lys Leu Ala Asp Gln Ser Gly Leu Asp Val Ile Arg Ile Arg Lys 65 70 75 80

Pro Phe His Thr Asp Asn Pro Ser Ile Gln Gly Gln Trp His Pro Phe
85 90 95

Thr Asn Lys Pro Thr Thr Phe Arg Gly Leu Arg Pro Arg Glu Val Gln
100 105 110

Asp Pro Ala Pro Ala Gln Val Gln Ala Gln 115 120

<210> 3791

<211> 65

<212> PRT

<213> Homo sapiens

<400> 3791

Met Leu Ser Leu Leu Ser Leu Cys Leu Leu Asn Pro Gln Ala Pro Val 1 5 10 15 Leu Pro Asp Ser Gly Thr Cys Thr Leu Pro Leu Gln Ser Gly Val Leu 20 25 30

Arg Ala Leu Arg Thr Met Lys His Ala Trp Cys Ile Phe Leu Ser Val 35 40 45

Asn Phe Pro His Trp Leu Leu Phe Asn Pro Leu His Phe Tyr Ser Lys 50 55 60

Ser 65

<210> 3792

<211> 40

<212> PRT

<213> Homo sapiens

<400> 3792

Met Gly Thr Asp Ala Leu Ser Phe Leu Leu Trp Gly Phe Pro Phe Leu

1 5 10 15

Trp Ser Pro Cys Ser Pro Cys Pro Pro Ser Gly Ala Ala Gly Leu Lys
20 25 30

Gly Gly Thr Arg Gly Gly Arg Val 35 40

<210> 3793

<211> 55

<212> PRT

<213> Homo sapiens

<400> 3793

Met Pro Val Thr Trp Phe Leu Ala Trp Ser Ala Phe Phe Gln Val Cys

1 5 10 15

Leu Gly Pro Ser Pro Ala Arg Gly Tyr Ser Thr Leu Gln Ala Arg Tyr 20 25 30

Ala Phe Phe Gln Pro Leu Gly Cys Gly His Cys Ile Gln Val Gly Thr 35 40 45

Ser Phe Pro Ser Leu Pro Phe 50 55

<210> 3794

<211> 30

<212> PRT

<213> Homo sapiens

<400> 3794

Met Ala Met Trp Val Val Ala Val Ile Ala Ser Ser Ala Thr Leu Gly
1 5 10 15

Leu Ala Lys Ile Thr His Asp Leu Gln Ser Thr Leu Gln Leu

ja da

20 25 30

```
<210> 3795
<211> 38
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<212> PRT

<213> Homo sapiens

<400> 3795

Met Leu Phe Phe Pro His Ser Pro Leu Asn Ile Val Leu Tyr Ala Leu 1 5 10 15

Leu Asn Thr Phe Ser Phe Val Ser Gln Ala Ser Leu Trp Met Thr Pro
20 25 30

Lys Tyr Asn Phe Phe His 35

<210> 3796

<211> 46

<212> PRT

<213> Homo sapiens

<400> 3796

Ala Asp Gly Pro Cys Phe Gly Pro Ala Leu Phe Leu Thr Leu Ala Leu

1 5 10 15

Thr Trp Glu Gly Leu Glu Gly Pro Ser His His Pro Arg Ser Pro Ser 20 25 30

Ala Val Pro Phe Pro Cys Arg Leu Ala Ala Ala Ser Pro Ala 35 40 45

<210> 3797

<211> 31

<212> PRT

<213> Homo sapiens

<400> 3797

Met Cys Val Cys Val Cys Val Cys Val Cys Val His Arg Val 1 5 10 15

Leu Pro Cys Val Val Phe Phe Trp Arg Leu Ser Leu Trp Ser Arg
20 25 30

<210> 3798

<211> 32

<212> PRT

<213> Homo sapiens

<400> 3798

Met Arg Leu Ser Thr Trp Leu Thr Phe Asn Met Cys Ile Phe Thr Leu

1 5 10 15

Cys Ile Phe Leu Thr Gly Leu Ser Arg Leu Asp Cys Ile His His Ile 20 25 30

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<210> 3799
<211> 17
<212> PRT
<213> Homo sapiens
<400> 3799
Ala Ser Gln Thr Phe Ser Thr Glu Leu Trp Cys Phe Gly Leu Trp His
                  5
Thr
<210> 3800
<211> 33
<212> PRT
<213> Homo sapiens
<400> 3800
Met Lys Asp Arg Lys Gln Trp Ala Phe Lys Thr Arg Trp Pro Phe Phe
His Phe Leu Met Leu Ser Leu Ala Leu Asp Cys Tyr Arg Phe Leu Thr
Ser
<210> 3801
<211> 30
<212> PRT
<213> Homo sapiens
<400> 3801
Met Ala Ile Leu Leu Thr Phe Leu Val Tyr Val Ile Ile Thr Ser Ile
Gly Lys Gln Leu His Lys Lys Asn Leu Tyr Ile Phe Asn Phe
                                 25
<210> 3802
<211> 15
<212> PRT
<213> Homo sapiens
<400> 3802
Met Arg Phe Leu Trp Cys Gln Pro Val Ala Ser Val Trp Gly Ser
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<210> 3803 <211> 294 <212> PRT <213> Homo sapiens

Met Ala Met Phe Ser Ala Ala Glu Pro Asn Glu Arg Gly Asp Gln Tyr

Cys Gly Gly Leu Leu Asp Arg Pro Ser Gly Ser Phe Lys Thr Pro Asn 35 40 45

Trp Pro Asp Arg Asp Tyr Pro Ala Gly Val Thr Cys Val Trp His Ile
50 55 60

Val Ala Pro Lys Asn Gln Leu Ile Glu Leu Lys Phe Glu Lys Phe Asp
65 70 75 80

Val Glu Arg Asp Asn Tyr Cys Arg Tyr Asp Tyr Val Ala Val Phe Asn 85 90 95

Gly Glu Val Asn Asp Ala Arg Arg Ile Gly Lys Tyr Cys Gly Asp 100 105 110

Ser Pro Pro Ala Pro Ile Val Ser Glu Arg Asn Glu Leu Leu Ile Gln 115 120 125

Phe Leu Ser Asp Leu Ser Leu Thr Ala Asp Gly Phe Ile Gly His Tyr 130 135 140

Ile Phe Arg Pro Lys Lys Leu Pro Thr Thr Glu Gln Pro Val Thr 145 150 155 160

Thr Thr Phe Pro Val Thr Thr Gly Leu Lys Pro Thr Val Ala Leu Cys 165 170 175

Gln Gln Lys Cys Arg Arg Thr Gly Thr Leu Glu Gly Asn Tyr Cys Ser 180 185 190

Ser Asp Phe Val Leu Ala Gly Thr Val Ile Thr Thr Ile Thr Arg Asp 195 200 205

Gly Ser Leu His Ala Thr Val Ser Ile Ile Asn Ile Tyr Lys Glu Gly 210 215 220

Asn Leu Ala Ile Gln Gln Ala Gly Lys Asn Met Ser Ala Arg Leu Thr 225 230 235 240

Val Val Cys Lys Gln Cys Pro Leu Leu Arg Arg Gly Leu Asn Tyr Ile 245 250 255

Ile Met Gly Gln Val Gly Glu Asp Gly Arg Gly Lys Ile Met Pro Asn 260 265 270

Ser Phe Ile Met Met Phe Lys Thr Lys Asn Gln Lys Leu Leu Asp Ala

275 280 285

Leu Lys Asn Lys Gln Cys 290

<210> 3804

<211> 40

<212> PRT

<213> Homo sapiens

<400> 3804

Met Phe Val Pro Tyr Leu Trp Val Phe Arg Ser Leu Ser Leu Ser Leu 1 5 10 15

Phe Leu Phe Leu Ser Val Phe Ser Ile Ser His Leu His Leu Gly Ser 20 25 30

Ile Leu Cys Ser Leu Ser Gln Asp 35 40

<210> 3805

<211> 32

<212> PRT

<213> Homo sapiens

<400> 3805

Met Ser Ile Lys Arg Gln Ser Val Leu Ala Thr Leu Ser Leu Gln Ile 1 5 10 15

Val Ala Phe Pro Leu Gln Gln Gly Pro Arg Gly Asp Thr Gly Asn Leu 20 25 30

<210> 3806

<211> 31

<212> PRT

<213> Homo sapiens

<400> 3806

Met Gln Met Leu Arg Lys Leu Phe Thr Ala Ile Arg Ala Leu Phe Leu 1 5 10 15

Ala Val Cys Val Leu Lys Val Ile Val Ser Leu Val Pro Trp Glu 20 25 30

<210> 3807

<211> 37

<212> PRT

<213> Homo sapiens

<400> 3807

Met Leu Thr His Ile Ser Phe Ala Ser Phe Ile Arg Leu Val Leu Thr 1 5 10 15

Leu Gly Gly Asp Ile Tyr Ser Gln Met Arg Ser Arg His Lys Val Lys 20 25 30

Asn Gly Thr Ile Tyr 35

<210> 3808

<211> 33

<212> PRT

<213> Homo sapiens

<400> 3808

Met Thr Ser Ala Phe Leu Phe Leu Phe Leu Asp Ser Val Leu Phe Thr 1 5 10 15

Trp Ala Cys Val Trp Leu Gly Asp Arg Gln Glu Cys Gln Lys Ala Gly 20 25 30

Arg

<210> 3809

<211> 26

<212> PRT

<213> Homo sapiens

<400> 3809

Val Asn Tyr Leu Phe Lys Ile Leu Thr Val His Tyr Val Pro Thr Met

1 5 10 15

Lys Pro Leu Ser Pro Lys Thr Gln Thr Asp 20 25

<210> 3810

<211> 21

<212> PRT

<213> Homo sapiens

<400> 3810

Met Ile Arg Thr Pro Asn Gln Ile Gln Lys Pro Val Leu Leu Tyr Leu 1 5 10 15

Leu His Trp Pro Ser 20

<210> 3811

<211> 55

<212> PRT

<213> Homo sapiens

Ser Cys Pro Cys Phe 35

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<400> 3811
Met Asp Leu Leu Phe Leu Asp Met Gly Leu Ser Ala Trp Gln Met Trp
Lys Leu Lys Phe Leu Val Pro Leu Gln Val Leu Ala Ser Gln Pro Cys
Arg Lys Val Val Tyr Arg Pro Phe Ile Leu Lys Leu Ile Thr Cys Pro
Trp Trp Thr Phe Leu Trp Trp
     50
<210> 3812
<211> 12
<212> PRT
<213> Homo sapiens
<400> 3812
Asp Ser Thr Leu Leu Ile Phe Leu Ile Ile Thr Leu
                  5
<210> 3813
<211> 25
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 3813
Leu Asn Thr Ser Asp Phe Xaa Phe Val Tyr Cys Phe Ser Leu Ser Phe
Ser Ser Leu Ser Lys Gln Leu Leu Asp
             20
<210> 3814
<211> 37
<212> PRT
<213> Homo sapiens
<400> 3814
Met Asn Lys Gln Lys Arg Lys Gln Gly Thr Cys Val Ser Leu Ser Leu
Leu Phe Cys Leu Ser Leu Cys Pro Leu Ser Tyr Val Ser His Ala Val
                                  25
```

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<210> 3815
<211> 23
<212> PRT
<213> Homo sapiens
<400> 3815
Met Leu Leu Cys Ile Leu Ile Val Cys Ile Tyr Ser Ala Tyr Val Ala
Cys Leu Gln Asn Tyr Ile Lys
             20
<210> 3816
<211> 18
<212> PRT
<213> Homo sapiens
<400> 3816
Met Pro Phe Arg Trp Ala Ala Ser Leu Ala Thr Trp Phe Gln Gly Ala
Val Leu
<210> 3817
<211> 383
<212> PRT
<213> Homo sapiens
<400> 3817
Leu Leu Leu Tyr Ala Pro Val Gly Phe Cys Leu Leu Val Leu Arg Leu
Phe Leu Gly Ile His Val Phe Leu Val Ser Cys Ala Leu Pro Asp Ser
Val Leu Arg Arg Phe Val Val Arg Thr Met Cys Ala Val Leu Gly Leu
Val Ala Arg Gln Glu Asp Ser Gly Leu Arg Asp His Ser Val Arg Val
Leu Ile Ser Asn His Val Thr Pro Phe Asp His Asn Ile Val Asn Leu
 65
                     70
Leu Thr Thr Cys Ser Thr Pro Leu Leu Asn Ser Pro Pro Ser Phe Val
                                     90
                 85
Cys Trp Ser Arg Gly Phe Met Glu Met Asn Gly Arg Gly Glu Leu Val
                                105
                                                     110
            100
Glu Ser Leu Lys Arg Phe Cys Ala Ser Thr Arg Leu Pro Pro Thr Pro
                            120
                                                125
Leu Leu Phe Pro Glu Glu Glu Ala Thr Asn Gly Arg Glu Gly Leu
```

130

140

Met Lys Arg Gln Arg His Pro Arg Leu Arg Pro Gln Ser Ala Gln Ser

Ser Phe Pro Pro Ser Pro Gly Pro Ser Pro Asp Val Gln Leu Ala Thr 260 265 270

Leu Ala Gln Arg Val Lys Glu Val Leu Pro His Val Pro Leu Gly Val 275 280 285

Ile Gln Arg Asp Leu Ala Lys Thr Gly Cys Val Asp Leu Thr Ile Thr 290 295 300

Asn Leu Leu Glu Gly Ala Val Ala Phe Met Pro Glu Asp Ile Thr Lys 305 310 315 320

Gly Thr Gln Ser Leu Pro Thr Ala Ser Ala Ser Lys Phe Pro Ser Ser 325 330 335

Gly Pro Val Thr Pro Gln Pro Thr Ala Leu Thr Phe Ala Lys Ser Ser 340 345 350

Trp Ala Arg Gln Glu Ser Leu Gln Glu Arg Lys Gln Ala Leu Tyr Glu 355 360 365

Tyr Ala Arg Arg Phe Thr Glu Arg Arg Ala Gln Glu Ala Asp 370 375 380

<210> 3818

<211> 44

<212> PRT

<213> Homo sapiens

<400> 3818

Lys Ala Leu Tyr Thr Trp Leu Pro Ser Val Leu Pro Leu Ala Leu Ser 1 5 10 15

Met Arg Ser Gln Ala Leu Gly Arg Leu Cys Asn His Pro Pro Asn Leu 20 25 30

Val His Phe Pro Gln Val Ala Phe Leu Asn Ser Pro

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<210> 3819
<211> 37
<212> PRT
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<213> Homo sapiens

<400> 3819

Lys Thr Ile Thr His Val Leu Gln Leu Leu Val Leu Leu Pro Ala His 1 5 10 15

Ser Trp Tyr Leu Ser Ile Ile Val Val Ala Ser Glu Lys Asn Ser Lys 20 25 30

Lys Lys Glu Tyr Thr 35

<210> 3820 <211> 29

<212> PRT

<213> Homo sapiens

<400> 3820

Met Ser Thr Phe Tyr Ile Phe Ile Phe Met Asn Asn Thr Val Arg Lys 1 5 10 15

Gly Ser Asn Ala Ser Cys Asn Tyr Trp Tyr Ile Lys Val 20 25

<210> 3821

<211> 123

<212> PRT

<213> Homo sapiens

<400> 3821

Tyr Trp Ala Leu Leu Arg Thr Leu Leu Ala Leu Ala Ala Phe Ser Thr 1 5 10 15

Ala Ile Ala Ala Leu Lys Leu Trp Asn Glu Asp Phe Arg Tyr Gly Tyr 20 25 30

Ser Tyr Tyr Asn Ser Ala Cys Arg Ile Ser Ser Ser Ser Asp Trp Asn 35 40 45

Thr Pro Ala Pro Thr Gln Ser Pro Glu Glu Val Arg Arg Leu His Leu
50 60

Cys Thr Ser Phe Met Asp Met Leu Lys Ala Leu Phe Arg Thr Leu Gln 65 70 75 80

Ala Met Leu Leu Gly Val Trp Ile Leu Leu Leu Leu Ala Ser Leu Ala 85 90 95

Pro Leu Trp Leu Tyr Cys Trp Arg Met Phe Pro Thr Lys Gly Lys Arg 100 105 110 Asp Gln Lys Glu Met Leu Glu Val Ser Gly Ile 115 120

<210> 3822

<211> 40

<212> PRT

<213> Homo sapiens

<400> 3822

Met Cys Ser His Pro Leu Ala Ser Arg Ala Leu Phe Pro Gly Ile Leu 1 5 10 15

Val Lys Val Val Ser Cys Ile Pro Leu Pro Phe Tyr Leu Gly Phe Asp 20 25 30

Ile Gly Lys Val Tyr Leu Lys Thr 35 40

<210> 3823

<211> 74

<212> PRT

<213> Homo sapiens

<400> 3823

Met Phe Met Lys Val Ser Arg Pro His Pro Ser Asp Tyr Pro Leu Leu 1 5 10 15

Ile Leu Phe Val Val Gly Gly Val Thr Val Ser Glu Val Lys Met Val
20 25 30

Lys Asp Leu Val Ala Ser Leu Lys Pro Gly Thr Gln Val Ile Val Leu
35 40 45

Ser Thr Arg Leu Leu Lys Pro Leu Asn Ile Pro Glu Leu Leu Phe Ala 50 55 60

Thr Asp Arg Leu His Pro Asp Leu Gly Phe 65 70

<210> 3824

<211> 43

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3824

Met Ser His His Ala Trp Leu Ser Val Leu Phe Ser Val Ser Val Pro 1 5 10 15

Ser Val Ser Ser Ala Tyr Met Phe Ser Ile Leu Ser Cys Ser Phe Ser

20 25 30

Ser Val Pro Thr Arg Tyr Phe Trp Xaa Lys Asn 35 40

<210> 3825

<211> 67

<212> PRT

<213> Homo sapiens

<400> 3825

Met Thr Lys Val Pro Ser Cys Phe Leu Leu Pro Val Leu Leu Gly
1 5 10 15

Arg Lys Arg Gly Leu Met Arg Leu His Ser Gly Ala His Ile Thr Arg 20 25 30

Cys Ile Cys Arg His Arg Ala Gly Cys Leu Gln Pro Gly Glu Gly Gln 35 40 45

Arg Glu Gly Val Tyr Glu Cys Glu Cys Val Cys Met Glu Val Gly Ala 50 55 60

Leu Gly Val

<210> 3826

<211> 67

<212> PRT

<213> Homo sapiens

<400> 3826

Met Thr Lys Val Pro Ser Cys Phe Leu Leu Pro Val Leu Leu Gly
1 5 10 15

Arg Lys Arg Gly Leu Met Arg Leu His Ser Gly Ala His Ile Thr Arg
20 25 30

Cys Ile Cys Arg His Arg Ala Gly Cys Leu Gln Pro Gly Glu Gly Gln
35 40 45

Arg Glu Gly Val Tyr Glu Cys Glu Cys Val Cys Met Glu Val Gly Ala 50 55 60

Leu Gly Val

<210> 3827

<211> 129

<212> PRT

<213> Homo sapiens

<400> 3827

Met Glu Ser Cys Ala Phe Lys Ala Ala Leu Ala Cys Val Gly Gly Phe 1 5 10 15

Val Leu Gly Gly Ala Phe Gly Val Phe Thr Ala Gly Ile Asp Thr Asn 20 25 30

Val Gly Phe Asp Pro Lys Asp Pro Tyr Arg Thr Pro Thr Ala Lys Glu 35 40 45

Val Leu Lys Asp Met Gly Gln Arg Gly Met Ser Tyr Ala Lys Asn Phe
50 55 60

Ala Ile Val Gly Ala Met Phe Ser Cys Thr Glu Cys Leu Ile Glu Ser 65 70 .75 80

Tyr Arg Gly Thr Ser Asp Trp Lys Asn Ser Val Ile Ser Gly Cys Ile 85 90 95

Thr Gly Gly Ala Ile Gly Phe Arg Ala Gly Leu Lys Ala Gly Ala Ile 100 105 110

Gly Cys Gly Gly Phe Ala Ala Phe Ser Ala Ala Ile Asp Tyr Tyr Leu 115 120 125

Arg

<210> 3828

<211> 36

<212> PRT

<213> Homo sapiens

<400> 3828

Met His Asn Thr Phe Phe Asn Thr Ile Leu Ile Thr Lys His Leu Ile

1 10 15

Tyr Cys Tyr Phe Val Cys Phe Leu Asn Cys Ile Phe Cys Gln Cys Gly 20 25 30

Ile Ser Cys Leu 35

<210> 3829

<211> 31

<212> PRT

<213> Homo sapiens

<400> 3829

Met Lys Ser Gln Ser Ser Leu Ser Val Gly Ile Leu Arg Val Thr Leu 1 5 10 15

Cys Leu Val Pro Ser Cys Val Pro Ala Ile Asp Cys Asn Ala Gln 20 25 30

<210> 3830

<211> 46

<212> PRT

<213> Homo sapiens

<400> 3830

Met Leu Val Leu Ser Glu Gln Trp Glu Leu Val Trp Asp Leu Leu Leu 1 5 10 15

Gln Leu Pro Trp Trp Leu Lys Ile Glu Ala Leu Gly Asn Gly Ser Ser 20 25 30

Val Trp Lys Glu Thr Val His Leu Gly Phe Leu Ala Trp Arg 35 40 45

<210> 3831

<211> 55

<212> PRT

<213> Homo sapiens

<400> 3831

Met Arg Gln Gln Arg Trp Pro Arg Ser Ile Leu Leu Leu Cys Gly Glu
1 5 10 15

Leu Cys Phe Ser Leu Val Thr Ile Gly Lys Gly Ser Cys Ser Tyr Val 20 25 30

Ser Leu Pro Val Pro Gln Ser Phe Val His Gly Val Gly His His Leu 35 40 45

Leu Pro Ile Gln Gly Asn Asp 50 55

<210> 3832

<211> 51

<212> PRT

<213> Homo sapiens

<400> 3832

Met Pro Arg Ala Trp Trp Pro Ser Tyr Thr Cys Ser Leu Leu Cys Leu
1 10 15

Ser Ile Ser Val His Gln Phe Asp Ser Gln Thr Met Phe Pro Ser Lys 20 25 30

Trp Leu Trp Ser Arg Asn Glu Lys Glu Ser Ser Ser Leu Gly Lys Ser 35 40 45

Lys Arg Lys 50

<210> 3833

<211> 51

<212> PRT

<213> Homo sapiens

<400> 3833

Met Asn Pro Phe Ile Phe Asn Val Ile Thr Asp Thr Val Gln Phe Lys

10 15 Ser Ser Ile Leu Leu Thr Phe Ala Ser Ile Phe Leu Ser Ser Phe 20 25 Pro Ala Phe Ser Tyr Phe Asn Gln Ile Val Leu Thr Ile Ser Leu His His Val Phe 50 <210> 3834 <211> 44 <212> PRT <213> Homo sapiens <400> 3834 Met Arg Gln Asn Phe Val Ala Gln Phe Val Gln Leu Leu Lys Cys Trp Leu Cys Asp Val Trp Ser Gly Val Val Val Glu Lys Asn Trp Ala Pro Ser Val Asp Gln Cys Gln Leu Gln Val Leu Gln Phe <210> 3835 <211> 45 <212> PRT <213> Homo sapiens <400> 3835 Met Ser Leu Leu Val Met Ser Leu Cys Tyr Phe Leu Gly Glu Leu Phe Glu Leu Ser Ala Phe Asn Leu Pro Phe Val His Arg Ala Arg Pro Pro Val Thr Thr Val Glu Ala Gly Gly Glu Leu Leu Tyr Pro <210> 3836 <211> 40 <212> PRT <213> Homo sapiens <400> 3836 Met Cys Leu His Leu Leu Leu Ala Ile Ser Gly Ile Leu Asn Leu His 10 5 Cys His Leu Val Leu Cys Ser Cys Gly Arg Tyr Thr Gln Lys Thr Gln

Ala Asn Thr Thr Trp Val Thr Ser

35

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<210> 3837
<211> 40
<212> PRT
<213> Homo sapiens
<400> 3837
Met Cys Leu His Leu Leu Leu Ala Ile Ser Gly Ile Leu Asn Leu His
Cys His Leu Val Leu Cys Ser Cys Gly Arg Tyr Thr Gln Lys Thr Gln
                                  25
Ala Asn Thr Thr Trp Val Thr Ser
         35
<210> 3838
<211> 343
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (184)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (198)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<222> (210)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (300)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (307)
<223> Xaa equals any of the naturally occurring L-amino acids
 <400> 3838
Met Tyr Ile Ser Pro Glu Glu Phe Lys Pro Ile Ala Glu Lys Leu Thr
Gly Ser Thr Pro Ala Ala Ser Tyr Glu Glu Glu Glu Leu Pro Pro Asp
 Pro Ser Glu Glu Thr Leu Thr Ile Glu Ala Arg Phe Gln Pro Leu Leu
          35
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Pro Glu Thr Met Thr Lys Ser Lys Asp Gly Phe Leu Gly Val Ser Arg

50	55	60
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Leu 65	Ala	Leu	Ser	Gly	Leu 70	Arg	Asn	Trp	Thr	Ala 75	Ala	Ala	Ser	Pro	Ser 80
Ala	Val	Phe	Ala	Thr 85	Arg	His	Phe	Gln	Pro 90	Phe	Leu	Pro	Pro	Pro 95	Gly
Gln	Glu	Leu	Gly 100	Glu	Pro	Trp	Trp	Ile 105	Ile	Pro	Ser	Glu	Leu 110	Ser	Met
Phe	Thr	Gly 115	Tyr	Leu	Ser	Asn	Asn 120	Arg	Phe	Tyr	Pro	Pro 125	Pro	Pro	Lys
Gly	Lys 130	Glu	Val	Ile	Ile	His 135	Arg	Leu	Leu	Ser	Met 140	Phe	His	Pro	Arg
Pro 145	Phe	Val	Lys	Thr	Arg 150	Phe	Ala	Pro	Gln	Gly 155	Ala	Val	Ala	Cys	Leu 160
Thr	Ala	Ile	Ser	Asp 165	Phe	Tyr	Tyr	Thr	Val 170	Met	Phe	Arg	Ile	His 175	Ala
Glu	Phe	Gln	Leu 180	Ser	Glu	Pro	Xaa	Asp 185	Phe	Pro	Phe	Trp	Phe 190	Ser	Pro
Ala	Gln	Phe 195	Thr	Gly	Xaa	Ile	Ile 200	Leu	Ser	Lys	Asp	Ala 205	Thr	His	Val
Arg	Хаа 210	Phe	Arg	Leu	Phe	Val 215	Pro	Asn	His	Arg	Ser 220	Leu	Asn	Val	Asp
Met 225	Glu	Trp	Leu	Tyr	Gly 230	Ala	Ser	Glu	Ser	Ser 235	Asn	Met	Glu	Val	Asp 240
Ile	Gly	Tyr	Ile	Pro 245	Gln	Met	Glu	Leu	Glu 250		Thr	Gly	Pro	Ser 255	Va]
Pro	Ser	Val	Ile 260		Asp	Glu	Asp	Gly 265		Met	Ile	Asp	Ser 270		Leu
Pro	Ser	Gly 275		Pro	Leu	Gln	Phe 280		Phe	Glu	Glu	Ile 285	Lys	Trp	Ala
Ala	Gly 290		Glu	Leu	Gly	Gly 295		Cys	Pro	Ala	Хаа 300	Gly	Gly	Gly	His
Val 305	Pro	Xaa	Gln	Glu	Val 310		Tyr	Leu	Pro	Phe 315		Glu	Ala	Phe	As ₁
Arg	, Ala	Lys	: Ala	Glu 325		Lys	Leu	Val	His 330		·Ile	. Leu	. Leu	335	Gly
Ala	. Lev	ı Asp	Asp		Ser	Суз	3								

<210> 3839 <211> 55 <212> PRT

<213> Homo sapiens

<400> 3839

Met Thr Phe Gly Glu Tyr Val Ala Leu Ile Phe Phe Thr Leu Ile Ile 1 5 10 15

Phe Leu Ser Ser Arg Gln Pro Ile Ala Pro Trp Arg Pro His Gln Pro 20 25 30

Cys Lys Phe Ser Pro Ala Ala Trp Arg Leu Gly Arg Gly Ala Ala Val 35 40 45

Thr Arg Arg Tyr Thr Arg Leu 50 55

<210> 3840

<211> 52

<212> PRT

<213> Homo sapiens

<400> 3840

Met Thr Leu His Val Ser Arg Leu Trp Cys Cys Cys Pro Lys Lys Gly
1 5 10 15

Gln Ala Trp Ser Ala Tyr Gly Ala Leu Leu Trp Cys Tyr Leu Ala Pro 20 25 30

Val Ser Leu Glu Ser Glu Glu Val Trp Pro Leu Lys Ile Lys Leu Pro 35 40 45

Pro Glu Leu Leu 50

<210> 3841

<211> 51

<212> PRT

<213> Homo sapiens

<400> 3841

Met Tyr Phe Pro Cys Arg Trp Leu Leu Pro Ser Val Leu Gly Tyr Leu 1 5 10 15

Ala Met Glu Leu Leu Arg Gln Ser Leu Pro Arg Trp Arg Ser Ser Gln 20 25 30

Cys Leu His Leu Pro Ile Arg Asn Thr Arg Cys Leu Pro Trp Cys Lys 35 40 45

Val Pro Arg 50

<210> 3842

<211> 16

<212> PRT

<213> Homo sapiens

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<210> 3843
<211> 48
<212> PRT
<213> Homo sapiens
<400> 3843
Met Phe Trp Glu Val Leu Phe Ile Val Cys Phe Pro Thr Phe Ala Leu
                                    10
Ile Thr Arg Leu Ser Ser Leu Ile Ile Glu Thr Met Ser Leu Tyr Leu
            20
Val Pro Ser Ile Val Pro Ser Thr Gln Cys Met His Ser Leu Leu Val
                            40
<210> 3844
<211> 10
<212> PRT
<213> Homo sapiens
<400> 3844
Met Arg Leu Phe Val Leu Leu Leu Met Thr
         5
<210> 3845
<211> 1
<212> PRT
<213> Homo sapiens
<400> 3845
Ile
 1
<210> 3846
<211> 32
 <212> PRT
 <213> Homo sapiens
 <400> 3846
Met Gly Gly Ile Gln Tyr Cys Met Trp Gly His Pro Gly Trp Gly Gly
                        , 10
                 5
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<220>

Asp Ala Trp His Pro Ser Leu His Ser Pro Ala Arg Pro Gly Gly Val

```
<210> 3847
<211> 21
<212> PRT
<213> Homo sapiens
<400> 3847
Met Val Ile Ile Glu Met Leu Leu Lys Ile Leu Trp Val Val Phe Trp
                                    10
Ala Gly Tyr Pro Cys
<210> 3848
<211> 7
<212> PRT
<213> Homo sapiens
<400> 3848
Asp Val His Met Arg Ser Arg
 1
<210> 3849
<211> 38
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 3849
Met Arg Ser Pro Leu Ser Ala Ser Ala Leu Leu Leu Trp Xaa Ser Ser
Val Ala Arg Ala Phe Ser Ser Pro Ser Leu Leu Met Ala Val Pro Ser
             20
Pro Thr Cys Ser Arg Tyr
         35
<210> 3850
<211> 38
<212> PRT
<213> Homo sapiens
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<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 3850
Met Arg Ser Pro Leu Ser Ala Ser Ala Leu Leu Leu Trp Xaa Ser Ser
                  5
Val Ala Arg Ala Phe Ser Ser Pro Ser Leu Leu Met Ala Val Pro Ser
                                 25
Pro Xaa Cys Ser Arg Tyr
         35
<210> 3851
<211> 38
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 3851
Met Arg Ser Pro Leu Ser Ala Ser Ala Leu Leu Leu Trp Xaa Ser Ser
                                      10
Val Ala Arg Ala Phe Ser Ser Pro Ser Leu Leu Met Ala Val Pro Ser
Pro Xaa Cys Ser Arg Tyr
         35
<210> 3852
<211> 38
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (34)
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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3852

Met Arg Ser Pro Leu Ser Ala Ser Ala Leu Leu Leu Trp Xaa Ser Ser 1 5 10 15

Val Ala Arg Ala Phe Ser Ser Pro Ser Leu Leu Met Ala Val Pro Ser 20 25 30

Pro Xaa Cys Ser Arg Tyr 35

<210> 3853

<211> 41

<212> PRT

<213> Homo sapiens

<400> 3853

Ile Ser Ser Leu Val Gly Asn Leu Ala Thr Ile Gln Lys Phe Lys Ile 1 5 10 15

Tyr Cys Gln Pro Ser Arg Phe Trp Asn Thr Ser Pro Ser Ile Arg Thr 20 25 30

Gly Trp Arg Pro Val Asp Thr Pro Lys 35 40

<210> 3854

<211> 15

<212> PRT

<213> Homo sapiens

<400> 3854

Met Thr Ala Trp Tyr Ile Trp Val Thr Cys Val Gly Ser Leu Leu 1 5 10 15

<210> 3855

<211> 60

<212> PRT

<213> Homo sapiens

<400> 3855

Met Ala Val Leu Leu Leu Ala Leu Leu Thr Ala Ala Leu Ile Leu 1 5 10 15

Tyr Arg Arg Gln Ser Ile Glu Arg Gly Ala Phe Glu Gly Ala Arg 20 25 30

Tyr Ser Arg Ser Ser Ser Pro Thr Glu Ala Thr Glu Lys Asn Ile 35 40 45

Leu Val Ser Asp Met Glu Met Asn Glu Gln Glu
50 55 60

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<210> 3856
<211> 61
<212> PRT
<213> Homo sapiens
<400> 3856
Met Asn Tyr Arg Cys Leu Thr Phe Lys Ile Tyr Phe Val Leu Leu Ile
Ser Ser His Cys Val Asn Thr Gly Ser Cys Arg Ser Leu Leu Gly Arg
Asn Lys Phe Ile Tyr Phe Leu Arg Gly Ser Ser Gly Val Leu Ile Arg
Pro Leu Leu Cys Leu Gly Gly Ala Leu Val Leu Leu Ala
<210> 3857
<211> 17
<212> PRT
<213> Homo sapiens
<400> 3857
Met Gly Phe Val Val Leu Leu Cys Gln Val Pro Leu Gly Gln Leu
                                     10
Gly
<210> 3858
<211> 146
<212> PRT
<213> Homo sapiens
<400> 3858
Met Val Val Trp Tyr Leu Phe Gln Ile Val Ser Ala Val Ser Cys Ile
His Lys Ala Gly Ile Leu His Arg Asp Ile Lys Thr Leu Asn Ile Phe
Leu Thr Lys Ala Asn Leu Ile Lys Leu Gly Asp Tyr Gly Leu Ala Lys
 Lys Leu Asn Ser Glu Tyr Ser Met Ala Glu Thr Leu Val Gly Thr Pro
 Tyr Tyr Met Ser Pro Glu Leu Cys Gln Gly Val Lys Tyr Asn Phe Lys
```

Ser Asp Ile Trp Ala Val Gly Cys Val Ile Phe Glu Leu Leu Thr Leu

Lys Arg Thr Phe Asp Ala Thr Asn Pro Leu Asn Leu Cys Val Lys Ile 105

100

Val Gln Gly Ile Arg Ala Met Glu Val Asp Ser Ser Gln Tyr Ser Leu

Glu Leu Ile Gln Met Val His Ser Cys Leu Asp Gln Val Gln Glu Pro 140 130 . 135

Leu Pro 145

<210> 3859

<211> 54

<212> PRT

<213> Homo sapiens

<400> 3859

Met Leu Ala Phe Ile Cys Ser Ile Ser Ser Leu Leu Gly Cys Phe Trp

Gly Ile Thr Cys Leu Ser Ser Lys Leu Glu Thr Ser Asn Ser Pro Gly

Asp Ala Val Ala Leu Phe Val Gly Gln Trp His Leu Leu Val Val Cys 40

Asn Val Tyr Ser Leu Val 50

<210> 3860

<211> 26

<212> PRT

<213> Homo sapiens

<400> 3860

Met Tyr Gln Tyr Tyr Ile Pro Leu His Cys Leu Ile Ile Ile Ile

Ile Val His Cys Met Gly Ile Pro Arg Leu 20

<210> 3861

<211> 31

<212> PRT

<213> Homo sapiens

<400> 3861

Met Ala Arg Ala Ala Thr Gly Ala Gly Lys Ala Thr Trp Thr Leu Phe

Cys Trp Leu Met Ala Pro Arg Ala Cys Val His Lys Thr Ser Ser 20

<210> 3862

35

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<211> 23
<212> PRT
<213> Homo sapiens
<400> 3862
Met Gly Leu Phe Leu Leu Phe Leu Leu Arg Val Gly Val Gly Cys Val
Ile Cys Lys Tyr Phe Cys Ala
             20
<210> 3863
<211> 62
<212> PRT
<213> Homo sapiens
<400> 3863
Leu Glu Cys Trp Lys Asp Met Ile Arg Ala Ala Cys Ser Ser Gln Lys
Ser Val Ser Thr Ile Lys Trp Met Pro Asn His Gln Thr His Lys Cys
Ser Arg Cys Val Pro Gly Tyr Gly Ile Ser Arg Tyr Lys Lys Tyr Phe
Asn Tyr Ser Phe Val Ile Asn Ile Thr Tyr Glu Lys Lys Ile
<210> 3864
<211> 26
<212> PRT
<213> Homo sapiens
<400> 3864
Met Tyr Ile Leu Phe Leu Ser Ser Val Leu Ile Met Gly Ala Phe Leu
Lys Leu Ile Ser Tyr Phe Pro Ile Tyr Ile
             20
<210> 3865
<211> 37
<212> PRT
<213> Homo sapiens
Met Leu Leu Ala Tyr His Ile Phe Ile Ser Val Ser Ile Cys Arg Leu
Leu Gly Pro Gly Asn Asp Ser Gly Glu Phe Pro Ser Leu Val Ser Gly
                                  25
Ile Tyr Ser His Leu
```

<210> 3866 <211> 43 <212> PRT <213> Homo sapiens

<400> 3866

Met Ser Thr Leu Phe Thr Trp Leu Met Val Leu Arg Tyr Leu Leu Pro 1 5 10 15

Asn Ser Cys Phe Val Leu Asn Arg Pro Ser Phe Cys Asn Pro Phe Gly
20 25 30

Thr Ser Pro Ile Ser Cys Arg Lys Ala Ser Ser 35 40

<210> 3867 <211> 70 <212> PRT

<213> Homo sapiens

<400> 3867

Met Pro Asn Gly His Trp His Trp Ala Cys Leu Cys His Trp Gly Ser 1 5 10 15

Thr Gln Ala Val Ser Ile Cys Ala Thr Leu Ala Phe Pro Ser Arg Ser 20 25 30

Ser Arg Arg Trp Ala Ser Thr Thr Thr Arg Pro Leu Ala Ala Ser Leu 35 40 45

Leu Ser His Cys Thr Leu Leu Arg Gly Phe Leu Arg Arg Gln Asp Ser 50 55 60

Ala Val Pro Cys Cys Ser 65 70

<210> 3868 <211> 33

<212> PRT <213> Homo sapiens

<400> 3868

Met Thr Ser Ile Thr Ser His Val Leu Val Thr Val Leu Leu Ile Ile
1 5 10 15

Ser Leu Ser Thr Gln Thr Leu Glu Thr Val Ser Leu Thr Arg Ser Arg 20 25 30

Glu

<210> 3869

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<211> 23
<212> PRT
<213> Homo sapiens
<400> 3869
Met Ala Cys Ile Leu Phe Leu Asn Ala Phe Leu Leu Ile Pro Ile Leu
Leu Gly Ile Trp Thr Phe Tyr
             20
<210> 3870
<211> 58
<212> PRT
<213> Homo sapiens
<400> 3870
Met Lys Ser Phe Gln Ile Pro Leu Phe Phe Phe Pro Asn Gly Phe His
Met Cys Leu Lys Tyr Leu Tyr Phe Glu Leu Ser Asp Phe Pro Cys Pro
Pro Phe Ser Phe Val Pro Ser Leu Ser Gln His Gln Ser Arg Ile Gln
                              40
Asn Leu Pro Val Lys Gly Gln Pro Ser Phe
<210> 3871
<211> 28
<212> PRT
<213> Homo sapiens
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<211> 28
<212> PRT
<213> Homo sapiens
<400> 3871
Met Leu Val Gly Ala Ala Leu Pro Leu Val Pro Gly Val Ala Ser Ala
1 5 10 15

Gln Ser Gln Arg Ala Gly Ser Arg Val Leu His Arg
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<400> 3876

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<210> 3873
<211> 46
<212> PRT
<213> Homo sapiens
<400> 3873
Met Val Ser Gly Leu Ile Lys His Ser Asn Trp Leu Cys Phe Thr Leu
Ala Leu Val His Ala Lys Cys Ser Ile Ser Phe Ser Leu Leu His Cys
Ser Phe Ala Met Leu Leu Cys Ser Gly Leu Asp Val Ile Phe
                             40
         35
<210> 3874
<211> 24
<212> PRT
<213> Homo sapiens
<400> 3874
Met Trp Phe Leu Ser Leu Leu Ser Phe Ile Cys Phe Leu Ile Ser
                                     10
Ala Glu Tyr Glu Ile Cys Leu Phe
             20
<210> 3875
 <211> 32
 <212> PRT
 <213> Homo sapiens
 <400> 3875
Met Ala Ala Pro Gly Trp Pro Gly Pro Arg Ser Ala Ser Val Val Ala
 Leu Thr Phe Asp Lys Ser Phe Pro Cys Leu Cys Leu Gly Cys Pro Ile
              20
 <210> 3876
 <211> 55
 <212> PRT
 <213> Homo sapiens
```

Gly Leu Pro Phe Cys Leu Val Leu Ala Cys Ile Leu Pro Cys Tyr His

Leu Leu Phe Leu Pro Arg Trp Phe Val Lys Asn Lys Ser Pro Gly

ļ.d.

30 25 20

Cys Met Cys Pro Leu Ile His Ser Val Trp Ala Lys Glu Asn Glu Ala 40 35

Leu Met Val Thr Trp Cys Phe 50

<210> 3877

<211> 9

<212> PRT

<213> Homo sapiens

<400> 3877

Met Tyr Cys Leu Ser Ala Ile Leu Ile

<210> 3878

<211> 50

<212> PRT

<213> Homo sapiens

<400> 3878

Met Ala Leu Ser His Leu Leu Leu His Ser Arg Pro Leu Leu Glu Val 10

Cys Leu Ser His Val Leu Leu Ser Pro His Glu Arg Pro Leu Leu Leu

Phe Pro Cys Leu Leu Ser Gly Leu Ser Gly Ala Val Leu Arg Val Leu 35

Leu Gly 50

<210> 3879

<211> 34

<212> PRT

<213> Homo sapiens

<400> 3879

Phe Cys Thr Val Cys Leu Leu Thr Phe Ile Glu His Ile Leu Pro Ser

Ser Ile Arg Ile Thr His Leu Met Val Arg Lys Ser Cys Trp Glu Tyr 25

Asp Ser

<210> 3880

<211> 57

<212> PRT

<213> Homo sapiens

<400> 3880

Met Ala Ala Ile Trp His Phe Ala Phe Cys Thr Tyr Leu Asp Val Leu 1 5 10 15

Asp Ile Ser Pro Arg Pro Leu Ile Asp Asn Cys Pro Gly Val Phe Leu 20 25 30

Ala Ala Glu Met Met Trp Thr Glu Phe Ile Trp Pro Ile Pro Arg Gln 35 40 45

Trp Pro Leu Arg Leu Phe Pro Lys Phe 50 55

<210> 3881

<211> 72

<212> PRT

<213> Homo sapiens

<400> 3881

Met Arg Ala Gly Thr Phe Asp Trp Phe Ala Val Ala Cys Gln Glu Leu

1 5 10 15

Tyr Leu Leu Arg Ala Gln Met Thr Glu Ser Val Gln Pro Ser Val Ile 20 25 30

His Leu Phe Ser Leu Phe Leu Phe Pro Tyr Arg Val Cys Glu Pro Leu 35 40 45

Leu Thr Lys Tyr Gln Ser Gly Pro Ser Pro Ala His Val Lys Glu Glu 50 55 60

Gly Ala Val Gly Leu Arg Pro His
65 70

<210> 3882

<211> 15

<212> PRT

<213> Homo sapiens

<400> 3882

Met Thr Thr Val Ser Pro Ile Pro Ile Ser Cys Leu Phe Ala Ala
1 5 10 15

<210> 3883

<211> 23

<212> PRT

<213> Homo sapiens

<400> 3883

Met Leu Val Gly Val Val Asp Val Ser Cys Leu Leu Trp Pro Ser Leu

1 5 10 15

Pro Leu Leu Pro Glu Asn Thr

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<210> 3884
<211> 59
<212> PRT
<213> Homo sapiens
<400> 3884
Thr Leu Ala Gln Gl
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Thr Leu Ala Gln Glu His Arg Ser Arg Gly Leu Ala Trp Ser Thr Arg
1 5 10 15

Pro Pro Leu Cys Lys Ala Pro Glu Gly Pro Arg Gly Cys Gly Leu Ile 20 25 30

Arg Arg Leu His Leu Trp Thr Gly Leu His Thr Arg Ser Tyr Arg Thr 35 40 45

Ala Ile Cys Leu Pro Cys Arg Gly Arg Trp Pro 50 55

<210> 3885 <211> 86 <212> PRT <213> Homo sapiens

. . . .

Ser Ala Cys Val Phe Ser Phe Phe Leu Asn Arg Leu Phe Ser Gly Ser 20 25 30

Leu Ile Ser Leu Ser Ala Ser Arg Ser Leu Phe Cys Leu Gly Cys Phe 35 40 45

Ser Pro Ala Val Pro Ser Thr Arg Phe Pro Gly Ser Cys Pro Pro Arg 50 55 60

Ala Leu Pro Gln Gly Ser Thr Thr Pro Arg Cys Ser Pro Thr Ala Leu 65 70 75 80

Ser Gly Arg Pro Pro Val 85

<210> 3886 <211> 19 <212> PRT

<213> Homo sapiens

<400> 3886

Met Leu His Cys Phe Lys Lys Lys Met Leu Met Ile Val Leu Gly
1 5 10 15

Leu Gln Ala

<212> PRT

<400> 3890

<213> Homo sapiens

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<210> 3887
<211> 33
<212> PRT
<213> Homo sapiens
<400> 3887
Met Met Leu Ala Leu Phe Ile Val Leu Leu Ile Pro Pro Arg Gln
Asn Glu Asn Gln Met Pro Phe Pro Glu Gly Leu Ser Glu Gly Phe Gly
Pro
<210> 3888
<211> 48
<212> PRT
<213> Homo sapiens
<400> 3888
Met Gly Leu Gln Val Thr Pro Pro Leu Ser Phe Thr Gly Leu Trp Phe
Val Val Met Ala Asn Met Gly Trp Gln Arg Thr Ile Leu Thr Lys Val
Glu Ala Leu Gln His Gly Val Gln Pro Leu Ser Met Asp Ser Gly Pro
<210> 3889
<211> 20
<212> PRT
<213> Homo sapiens
<400> 3889
Met Gly Cys Pro Gly Leu Glu Gly Thr Leu Phe Leu Pro Pro Pro Leu
Pro Asn Leu Ser
             20
<210> 3890
<211> 98
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Met Asn Thr Lys Gly Arg Asp Phe His Leu Ala Val Phe Val Phe Pro

1				5					10					15	
Gln	Pro	Ser	Met 20	Val	Arg	Gly	Ser	Arg 25	Asn	Gly	Cys	Leu	Ile 30	Thr	Ala
Val	Thr	Pro 35	Ser	Arg	Lys	Asp	Ser 40	Gln	Arg	Asn	Суз	Ser 45	Leu	Lys	Lys
Lys	Lys 50	Ile	His	Lys	Val	Gly 55	Cys	Thr	Leu	Lys	Val 60	Leu	Arg	Arg	Ala
Ser 65	Val	Leu	Glu	Asn	Leu 70	Pro	Glu	Ile	Leu	Lys 75	Ala	Tyr	Lys	Lys	Gly 80
Glu	Ser	Ser	Lys	Leu 85	Asn	Phe	Asp	Ser	His 90	Gly	Trp	Gly	Leu	Tyr 95	Leu
Phe	Leu										-				
<213	0> 38 1> 21 2> PI 3> Ho	l RT	sapie	ens											
	0> 38 Glu		Ser	Gly 5	Leu	Val	Trp	Leu	Leu 10	Leu	Leu	Glu	Lys	Leu 15	Gly
Ala	Lys	Ala	Ala 20	Ser											
<212	0> 38 1> 10 2> PI 3> Ho	O RT	sapie	ens											
	0> 38 Gly		Val	Ser 5	Gly	Phe	Ser	Val	Ala 10						
<213 <213	0> 38 1> 38 2> PI 3> Ho	B RT	sapie	ens											
<222	1> SI 2> (3	35)	quals	s any	y of	the	natı	ural	ly o	ccuri	ring	L-ar	nino	acio	ls
<222	1> SI 2> (3	38)	male	e ans	, of	the	nati	ıralî	lv o	rcuri	cina	Ian	nino	ació	ie.

<400> 3893

Met Ala Leu Gln Trp Phe Cys Ile Leu Val Gly Asn Leu Phe Trp Phe 1 5 10 15

Ile Leu Ala Phe Pro Gln Pro Ser Cys Trp Phe Phe Gly Lys Met Trp 20 25 30

His Pro Xaa Gln Thr Xaa 35

<210> 3894

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3894

Met Ala Leu Tyr Ala Gly Phe Leu Leu Trp Ala Gly His Leu Gln Glu 1 5 10 15

Gly Tyr Ser Trp Arg Asn Gly Trp Gly Xaa Val Ala Val Asp Ser Ser 20 25 30

Leu Gly Pro Glu Arg Ile Glu Ser Glu Leu Gly Lys Leu Gln Ser Glu 35 40 45

Leu Lys Ser Arg Asn Pro Val Gly Gly Lys Tyr 50 55

<210> 3895

<211> 141

<212> PRT

<213> Homo sapiens

<400> 3895

His Ser Leu Leu Leu Leu Leu Leu Thr Leu Leu Gly Leu Gly Leu 1 5 10 15

Val Gln Pro Ser Tyr Gly Gln Asp Gly Met Tyr Gln Arg Phe Leu Arg 20 25 30

Gln His Val His Pro Glu Glu Thr Gly Gly Ser Asp Arg Tyr Cys Asn 35 40 45

Leu Met Met Gln Arg Arg Lys Met Thr Leu Tyr His Cys Lys Arg Phe 50 55 60

Asn Thr Phe Ile His Glu Asp Ile Trp Asn Ile Arg Ser Ile Cys Ser 65 70 75 80

Thr Thr Asn Ile Gln Cys Lys Asn Gly Lys Met Asn Cys His Glu Gly
85 90 95

Val Val Lys Val Thr Asp Cys Arg Asp Thr Gly Ser Ser Arg Ala Pro 100 105 110

Asn Cys Arg Tyr Arg Ala Ile Ala Ser Thr Arg Arg Val Val Ile Ala 115 120 125

Cys Glu Gly Asn Pro Gln Val Pro Val His Phe Asp Gly
130 135 140

<210> 3896

<211> 68

<212> PRT

<213> Homo sapiens

<400> 3896

Met Trp Arg Gly Val Ala Arg Gly Arg Lys Arg Lys Cys Leu Val Leu 1 5 10 15

Phe Cys Ser Pro Ala Leu Leu Ser Gln Gln Leu Phe Val Ile Val Val 20 25 30

Val Val Leu Arg Gln Val Pro Pro Gly Ala Cys Gly Ile Leu Leu Pro 35 40 45

Val Ser Val Ser Lys Cys His Arg Pro Pro Ile Ala Thr Tyr Ser Trp
50 55 60

His Cys Thr Phe 65

<210> 3897

<211> 16

<212> PRT

<213> Homo sapiens

<400> 3897

Met Phe Gln Ser Val Ser Leu Thr Tyr Leu His Phe Lys Tyr Gly Leu 1 5 10 15

<210> 3898

<211> 29

<212> PRT

<213> Homo sapiens

<400> 3898

Met Ala Val Arg Phe Glu Ala Leu Gln Ser Cys Gly Thr Pro Trp Cys 1 5 10 15

Val Cys Ser Val Leu Gly Thr Cys Met Gly Thr His Arg 20 25

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<210> 3899
<211> 32
<212> PRT
<213> Homo sapiens
<400> 3899
Met Leu His Leu Ser Ser Phe Leu Val Tyr Phe Ala Asn Trp Leu Leu
Asn Ser Glu Thr Trp Ser Asp Ser Gly Ser Val Ser Leu Ala Ile Leu
                                 25
<210> 3900
<211> 15
<212> PRT
<213> Homo sapiens
<400> 3900
Met Phe Ser Ile Ile Ala Phe Pro Leu Ile Leu Leu Thr Cys Cys
                                    10
<210> 3901
<211> 72
<212> PRT
<213> Homo sapiens
<400> 3901
Met Ile Ser Ser Gly Ser Ser Arg Tyr Ala Glu Thr Trp Asp Leu Leu
Leu Phe Leu Arg Leu Thr Cys Cys Ala His Cys Ala Trp Thr Pro Trp
His Asp Ala Gly Arg Gly Cys Arg Thr His Thr Ser Phe Glu Val Arg
Gln Ser Thr Asn Pro Ser Ser Thr Thr His Ser Phe Ser Ser Ser Gln
     50
Leu Cys Gly Leu Gly Gln Ile Ala
 65
<210> 3902
<211> 37
<212> PRT
<213> Homo sapiens
Leu Leu Val Leu Leu Ile Phe Val Ala Ser Ala His Gly Ala Leu
                                     10
                5
  1
```

Val Ser Pro Gln Ser Asn Gly Gly Ser Pro Lys Gln Leu His Tyr Arg
20 25 30

Val Ile Leu Gly Lys 35

<210> 3903

<211> 25

<212> PRT

<213> Homo sapiens

<400> 3903

Met Phe Glu Ile Arg Thr Ala Leu Ser Leu Arg Leu Ile Pro Leu Phe 1 5 10 15

Val Ser Thr Cys Gly Val Thr Gln Lys 20 25

<210> 3904

<211> 30

<212> PRT

<213> Homo sapiens

<400> 3904

Met Leu Val Ala Phe Leu Val Leu Tyr Phe Ser Phe Pro Tyr Leu Ala 1 5 10 15

Phe Val Gly Pro Lys Pro Thr Asn Asn Arg Leu Leu Lys Glu 20 25 30

<210> 3905

<211> 66

<212> PRT

<213> Homo sapiens

<400> 3905

Met Leu Ser Tyr Val Val Leu Met Phe Ile Leu Lys Leu Val Thr Phe 1 5 10 15

Pro Arg Lys Ile Leu Phe Asp Ser Ile Thr Ser Leu Asp Ile Ile Leu 20 25 30

Asn Gln Ser Gly Lys Glu Lys Lys Tyr Arg Lys Tyr Tyr Asn Leu Cys 35 40 45

Phe His His Lys Ile Phe Cys Ile Ser Ile Leu Leu Gln Tyr Gly Arg 50 55 60

Arg Leu

65

<210> 3906

Ile Cys

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<211> 70
<212> PRT
<213> Homo sapiens
<400> 3906
Met Leu Gly Phe Leu Thr Phe Arg Ser Leu Thr Trp Ile Arg Leu Gly
                                     10
Ala Ala Gln Trp Ser Arg Trp Val Pro Val Ser Leu Val Ile Arg Arg
             20
                                 25
                                                      30
Gly Leu Gly Val Gly Arg Ala Pro Glu Ser Gln Gln Cys Ala Trp Ala
Pro Thr Pro Ser Ser Thr Cys His Thr Ser Glu Gly Ser Tyr Ser Cys
                         55
Thr Gln Ala Val Glu Ser
<210> 3907
<211> 30
<212> PRT
<213> Homo sapiens
<400> 3907
Met Tyr Ile Lys Ser Pro Cys Cys Ala Cys Leu Ile Tyr Val Ile Phe
Ile Cys Gln Leu Cys Leu Thr Lys Ala Cys Gly Trp Gly Glu
<210> 3908
<211> 20
<212> PRT
<213> Homo sapiens
<400> 3908
Met Leu Leu Tyr Phe Phe Gln His Ile Gln Pro Ser Pro Trp Gly
Ala Phe His Ile
<210> 3909
<211> 18
<212> PRT
<213> Homo sapiens
<400> 3909
Met Phe Pro Ser Trp Pro Phe Leu Trp Leu Thr Leu Cys Ser Leu Cys
                5
                                    10
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<210> 3910
<211> 42
<212> PRT
<213> Homo sapiens
<400> 3910
Met Glu Lys Cys Glu Lys Leu Asn Cys Leu Glu Met Ser Arg Phe Phe
Tyr Leu Gln Leu Leu Leu Ala Cys Pro Thr Val Val Phe Glu Tyr Phe
             20
                                  25
Leu Tyr Ser Thr Pro Lys Asp Phe Asn Phe
<210> 3911
<211> 50
<212> PRT
<213> Homo sapiens
<400> 3911
Met Phe Tyr Phe Met Asn Leu Thr Lys Phe Phe Leu Asp Leu Ala
Asn Phe Asn Arg Val Phe Ser Tyr Gln Thr Phe Thr Tyr Leu Leu Lys
Leu His Ser Cys Lys Leu Phe Gly Gly Ile Cys Phe Tyr Phe Tyr Phe
Val Val
     50
<210> 3912
<211> 37
<212> PRT
<213> Homo sapiens
<400> 3912
Leu Asn Asp Gly Leu Cys Trp Phe Phe Cys Leu Phe Gly Trp Phe Val
Cys Leu Phe Trp His Ser Val Lys Gly Ser Gln Thr Phe Thr Tyr Tyr
Leu Leu Ser Cys Pro
         35
<210> 3913
<211> 37
<212> PRT
<213> Homo sapiens
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<400> 3913
Leu Asn Asp Gly Leu Cys Trp Phe Phe Cys Leu Phe Gly Trp Phe Val
1 5 10 15

Cys Leu Phe Trp His Ser Val Lys Gly Ser Gln Thr Phe Thr Tyr Tyr 20 25 30

Leu Leu Ser Cys Pro 35

<210> 3914 <211> 38

<212> PRT

<213> Homo sapiens

<400> 3914

Met Thr Cys Ala Arg Ser Pro Leu Ala Leu Pro Thr Pro Leu Phe Phe 1 5 10 15

Phe Leu Leu Ile Leu Tyr Ser Gln Lys Arg Ile Ser Phe Ser Ser Phe 20 25 30

Phe His Ser Leu Lys Phe 35

<210> 3915

<211> 34

<212> PRT

<213> Homo sapiens

<400> 3915

His Leu Phe Tyr Leu Gly Phe Ile His Leu Leu Glu Cys Val Gly Leu 1 5 10 15

His Leu Leu Pro Lys Leu Gly Ser Phe Lys Ala Phe Phe Leu Gln Ile 20 25 30

Tyr Phe

<210> 3916

<211> 140

<212> PRT

<213> Homo sapiens

<400> 3916

Ser Gln Leu Phe Gly Trp Leu Leu Ile Gly Val Val Ala Ile Leu Val 1 5 10 15

Phe Leu Thr Lys Cys Leu Lys His Tyr Cys Ser Pro Leu Ser Tyr Arg 20 25 30

Gln Glu Ala Tyr Trp Ala Gln Tyr Arg Ala Asn Glu Asp Gln Leu Phe 35 40 45 Gln Arg Thr Ala Glu Val His Ser Arg Val Leu Ala Ala Asn Asn Val 50 55 60

Arg Arg Phe Phe Gly Phe Val Ala Leu Asn Lys Asp Asp Glu Glu Leu 65 70 75 80

Ile Ala Asn Phe Pro Val Glu Gly Thr Gln Pro Arg Pro Gln Trp Asn 85 90 95

Ala Ile Thr Gly Val Tyr Leu Tyr Arg Glu Asn Gln Gly Leu Pro Leu 100 105 110

Tyr Ser Arg Leu His Lys Trp Ala Gln Gly Leu Ala Gly Asn Gly Ala 115 120 125

Ala Pro Asp Asn Val Glu Met Ala Leu Leu Pro Ser 130 135 140

<210> 3917

<211> 11

<212> PRT

<213> Homo sapiens

<400> 3917

Met Gln Glu Ser Pro Ser Gln Leu Leu Ser Ser 1 5 10

<210> 3918

<211> 33

<212> PRT

<213> Homo sapiens

<400> 3918

Met Gln Ser Val Ser Phe Leu Val Val Ser Phe Leu Gly Gln Cys Phe 1 5 10 15

Phe Val Phe Phe Leu Glu Met Phe Val Leu Pro Pro Val Asp Pro 20 25 30

Gly

<210> 3919

<211> 79

<212> PRT

<213> Homo sapiens

<400> 3919

Met Pro Leu Arg Arg Ser Gly Gly Phe Glu Tyr Leu Ser Leu Pro Pro 1 5 10 15

Ile Gl
n Glu Ile Gl
n Ser Leu Val Ser Leu Ser Leu Ser Val Ser Phe $20 \hspace{1.5cm} 25 \hspace{1.5cm} 30$

Phe Leu Phe Leu Pro Pro Asn Pro Ser His Ser Leu Pro Pro Ser Leu 35 40 45

Leu Pro Leu Phe Ala Ile Ile Phe Ser Leu Cys Phe Phe Ser Leu Leu 50 55 60

Pro Ser Leu Trp Ala Val Met Lys Ile Asn Ser Asp Cys Val His
65 70 75

<210> 3920

<211> 31

<212> PRT

<213> Homo sapiens

<400> 3920

Met Ser Gly Glu Asp Pro Leu Leu Ser Ile Pro Thr Cys Ala Thr Pro 1 5 10 15

Gly Ser Pro Cys Trp Gly Leu Leu Gly Pro Phe Ser Ser Cys Leu 20 25 30

<210> 3921

<211> 1

<212> PRT

<213> Homo sapiens

<400> 3921

Ile

1

<210> 3922

<211> 23

<212> PRT

<213> Homo sapiens

<400> 3922

Met Ser Asp Pro Lys Glu Asn Val Phe Thr Leu Met Leu Arg Cys Ser 1 5 10 15

Ala Ala Pro Leu Cys Ser Val 20

<210> 3923

<211> 35

<212> PRT

<213> Homo sapiens

<400> 3923

Met Phe Pro Asn Ile Met Phe Cys Thr Leu Met Leu Ile Ser Leu Cys 1 5 10 15

Val Val Pro Asp Thr Ser Trp Asp Leu Lys Lys Cys Cys Phe Phe Leu 20 25 30

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Lys Asp Gly
         35
<210> 3924
<211> 9
<212> PRT
<213> Homo sapiens
<400> 3924
Met Val Gly Ser Val Asp Phe Ser Phe
<210> 3925
<211> 22
<212> PRT
<213> Homo sapiens
<400> 3925
Met Leu Leu Gly Leu Glu Gly Leu Leu Phe Met Leu Phe Asn Ala
                                     10
Leu Ser Asn Val Phe Phe
             20
<210> 3926
<211> 3
<212> PRT
<213> Homo sapiens
<400> 3926
Leu Leu Ile
 1
<210> 3927
<211> 37
<212> PRT
<213> Homo sapiens
<400> 3927
Met Gly Ile Gly Ala Leu Ile Leu Leu Phe Phe Leu Thr Val Val Leu
Pro Phe Tyr Gly Phe Asn Gln Pro Pro Pro Pro Gly Lys His Leu Leu
                                  25
             20
Trp Ala Cys Trp Val
         35
<210> 3928
<211> 43
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<212> PRT <213> Homo sapiens

<400> 3928

Met Ala Val His His Pro Ala Phe Gln Leu Asn Val Thr Cys Leu Leu

Leu Leu Lys Met Ala Phe Cys Val Leu Gln Arg Leu Ala Trp Glu Val

Leu Cys Ser Ile Ala Val Asn Leu Asp Thr Phe

<210> 3929

<211> 52

<212> PRT

<213> Homo sapiens

<400> 3929

Leu Pro Leu Glu Asp Leu Cys Lys Gly Gly Leu Gly Thr Lys Glu Asn

Val Leu Phe Gly Arg Ala Gly Ser Lys Gly Thr Gly Gln Gly Leu Val

Gly Leu Gly Asn Gly Ser Leu Ser Trp Ile Pro Leu Met Lys Arg Leu 35

Gly Leu Phe Thr 50

<210> 3930

<211> 39

<212> PRT

<213> Homo sapiens

Met Ala Ala Arg Pro Leu Pro Val Ser Pro Ala Arg Ala Leu Leu Ala

Arg Pro Gly Arg Cys Ser Ala Arg Ala Leu Arg Gly Pro Arg Gly Glu

Leu Met Glu Pro Arg Lys Ser 35

<210> 3931

<211> 72

<212> PRT

<213> Homo sapiens

<400> 3931

Met Met Pro Val Cys Arg Val Gly Leu Trp Asn Gly Ser Cys Leu Cys

Val Cys Val Cys Ile Phe Met Gly Met Gly Ala Cys Leu Val Cys Ile 20 25 30

Cys Thr Cys Leu Tyr Cys Cys Val Pro Val Asn Thr Cys Leu Cys Met 35 40 45

Asp Gly Arg Ser Gln Ala Gln Ala Trp Pro Leu Pro Arg Ala Cys Gly 50 55 60

His Thr Ser Cys Ser Ser Pro Lys 65 70

<210> 3932

<211> 11

<212> PRT

<213> Homo sapiens

<400> 3932

Met His Phe His Ala Asp Tyr Met His Gly Cys 1 5 10 \cdot

<210> 3933

<211> 31

<212> PRT

<213> Homo sapiens

<400> 3933

Met Gly Ser Tyr Lys Gly Ser Thr Lys Lys Val Lys Phe Ile Leu Met
1 5 10 15

Thr Leu Lys Ile Tyr Met Phe Val Leu Asn Val Gly Arg Cys Gln 20 25 30

<210> 3934

<211> 6

<212> PRT

<213> Homo sapiens

<400> 3934

Met Cys Ser Leu Pro Leu 1 5

<210> 3935

<211> 32

<212> PRT

<213> Homo sapiens

<400> 3935

Met Phe Leu Ile Ser Ile Glu Ile Ala Leu Leu Pro His Ile Ser Leu

1 5 10 15

Ala Tyr Pro Trp Ser Leu Ala Ile Leu Asp Lys Asp Met Leu Phe Lys 20 25 30

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<210> 3936
<211> 33
<212> PRT
<213> Homo sapiens
<400> 3936
Met Phe Leu Ile Ile Phe Ile Ser Leu Asn Phe Ser Leu Cys His Ser
                  5
Asn Leu Thr Phe Thr His Gln Gln Ile Thr Met Gln Lys Lys Lys Tyr
Phe
<210> 3937
<211> 53
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 3937
Met Ser His Cys Leu Phe Leu Xaa Phe Cys Leu Lys Ile Pro Ser Trp
Lys Ser Cys His Ala Ile Gly Asp Cys Asp Ile Leu Leu Val Met Tyr
Thr Ala Thr Gly Phe Val Cys Tyr Val Asp Gly Leu Tyr Leu Cys Tyr
Ser Glu Gly Ile Lys
     50
<210> 3938
<211> 97
<212> PRT
<213> Homo sapiens
<400> 3938
Met Ala Gln Pro Pro Gln Asn Leu Lys Arg Phe Ser Ser Cys Arg Ala
Phe Ala Arg Leu Gly Tyr Pro Pro Tyr Phe Pro Cys Leu Pro Ser Ser
Ala Ala Arg Pro Ser Val Pro Ala Ser Ala Gln Pro Ser Val Lys Gly
```

35 40 45

Ser Pro Ala Ser Asn Leu His Cys Thr Ala Ser Pro Lys Thr Val Thr 50 55 60

Ser Trp Lys Ala Gly Ala Gln Leu Pro Leu Asn Lys Arg Val Ala Lys 65 70 75 80

Arg

<210> 3939

<211> 22

<212> PRT

<213> Homo sapiens

<400> 3939

Met Thr Phe Phe Val Phe Met Glu Val Arg Thr Pro Val Met Gln Thr 1 5 10 15

Gly Ser Arg Ser Leu Leu 20

<210> 3940

<211> 7

<212> PRT

<213> Homo sapiens

<400> 3940

Met Lys Cys Ile Leu Glu Phe

<210> 3941

<211> 30

<212> PRT

<213> Homo sapiens

<400> 3941

Met Tyr Leu Phe Asn Asn Phe Phe Phe Ser Ser Trp Tyr Leu Ile Leu 1 5 10 15

Val Leu Leu Asn Gln Tyr Ser Gly Thr Ile Val Gly Val Tyr 20 25 30

<210> 3942

<211> 29

<212> PRT

<213> Homo sapiens

<400> 3942

Met Gly Ala Arg His Cys Ile Trp Pro Phe Cys Arg Tyr Phe Phe Pro 1 5 10 15

Leu Ser Leu Ile Val Pro Ile Asp Phe Ser Pro Phe Leu 20 25

<210> 3943

<211> 38

<212> PRT

<213> Homo sapiens

<400> 3943

Met Lys Glu Thr Gly Leu Ile Ala Ile Ile Leu Leu Ala Ala Phe 1 5 10 15

Ser Lys Ser Leu Phe Leu Lys Pro Pro Pro Ile Leu Phe Lys Gln Ile 20 25 30

Lys Thr Lys Ile Ser Cys 35

<210> 3944

<211> 6

<212> PRT

<213> Homo sapiens

<400> 3944

Ile Tyr Ser Ala Leu Asp

<210> 3945

<211> 34

<212> PRT

<213> Homo sapiens

<400> 3945

Met Arg Ser Phe Cys Phe Leu Gly Lys Val Phe His Phe Leu Val Trp

1 10 15

Leu Phe Ala His Pro Arg Arg Lys Thr Ser Leu Arg Val Thr Phe 20 25 30

Thr Trp

<210> 3946

<211> 34

<212> PRT <213> Homo sapiens

<400> 3946

Met Arg Leu Cys Val Phe Leu Ala Leu Leu His Val Pro Phe Gln Leu 1 5 10 15

Met Ala His Ser Asp Ser Gln Arg Phe Met Pro Lys Leu His Thr Ile
20 25 30

Val Phe

<210> 3947

<211> 33

<212> PRT

<213> Homo sapiens

<400> 3947

Met Arg Leu Gly Ala Lys Thr Ser Leu Phe Phe Phe Ser Phe Leu Phe 1 5 10 15

Leu Leu Val Phe Ala Lys Leu Leu Leu Leu Lys Lys Gly Ser Tyr Cys 20 25 30

Tyr

<210> 3948

<211> 71

<212> PRT

<213> Homo sapiens

<400> 3948

Met Ser Tyr Ile Thr Leu Leu Lys Phe Ile Leu Tyr Phe Phe Ser Leu 1 5 10 15

Val Ser Glu Phe Arg Lys Leu Ile Pro Phe Ile Met Phe Ser Leu Tyr 20 25 30

Trp Leu Cys Tyr Phe Asp Leu Thr Ile Leu Phe Lys Ser Leu Ile Thr 35 40 45

Tyr Leu Phe Phe Leu Phe Ser Phe Tyr Ser Ile Ile Pro Ile Arg
50 55 60

Glu Phe Val Thr Pro Glu Lys 65 70

<210> 3949

<211> 20

<212> PRT

<213> Homo sapiens

<400> 3949

Met Lys Leu Leu Ala Leu Val Ile Ser Ile Leu Ile Cys Thr Gly Gln
1 5 10 15

Ile Tyr Asn Cys

20

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<210> 3950
<211> 35
<212> PRT
<213> Homo sapiens
<400> 3950
Met Glu Ala Ala Lys Ser Leu Cys Pro Arg Ala Pro Leu Ser Cys Ser
                                     10
                                                          15
Ala Leu Leu Cys Ser Phe Cys Ile Val Gly Glu Asp Gly Tyr His
Cys Val Cys
         35
<210> 3951
<211> 33
<212> PRT
<213> Homo sapiens
<400> 3951
Met Ser Glu Phe Leu Leu Cys Ile Phe Pro Ser Ile Trp Tyr Cys
Gln Phe Lys His Lys Cys Trp Glu Arg Tyr Arg Ala Thr Gly Thr Leu
                                 25
Thr
<210> 3952
<211> 49
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 3952
Tyr Phe Thr Val Ile Tyr Phe Xaa Phe Gln Leu Ser Ile Phe Xaa Xaa
                                      10
                                                          15
  1
                  5
```

Ser Leu Ser Met Gly Thr Tyr Leu Pro His Phe Phe Arg Ser Asp Met

20 25 30

Thr His Lys Lys Asp Gly Phe Gly Phe Leu Lys Thr Leu Thr Ile Ser 35 40 45

Asn

<210> 3953

<211> 30

<212> PRT

<213> Homo sapiens

<400> 3953

Met Ile Phe Leu Phe Leu Phe Phe Val Phe Cys Phe Leu Val Ser Gln 1 5 10 15

Tyr Val Ser Pro Phe Tyr Ser Asn Thr Phe Phe Gly Val Gln 20 25 30

<210> 3954

<211> 29

<212> PRT

<213> Homo sapiens

<400> 3954

Met Cys Leu Pro Ser Asp Val Thr Phe Pro Leu Leu Leu Gly Met
1 5 10 15

Cys Leu Val Pro Leu Ser Pro Ala His Val Thr Val Thr 20 25

<210> 3955

<211> 12

<212> PRT

<213> Homo sapiens

<400> 3955

Met Ile Val Ile Val Phe Tyr Leu Ile Asn Leu Leu 1 5 10

<210> 3956

<211> 81

<212> PRT

<213> Homo sapiens

<400> 3956

Trp Gly Lys Ile Leu Val Val Leu Met Val Asn Leu Ser Tyr Trp Ile

1 5 10 15

Leu Cys Met Pro His Ser Arg Ile His Cys Leu Ser Leu Ile Met Asp 20 25 30 Gly Met Gln Gln His Pro Ser Ile Leu His Ser Leu Gln Gly Lys Asn
35 40 45

Cys Ala Trp Gly Leu Lys Cys Ser Met Cys Ser Ser Ile Ser Leu Ser 50 55 60

Ser Val Met Gln Asn Gly Ile Phe Asn Gly Arg Ser Ala Leu Leu Arg 65 70 75 80

Cys

<210> 3957

<211> 520

<212> PRT

<213> Homo sapiens

<400> 3957

Met Val Thr Ser Ser Phe Pro Ile Ser Val Ala Val Phe Ala Leu Ile $1 \hspace{1.5cm} 5 \hspace{1.5cm} 10 \hspace{1.5cm} 15$

Thr Leu Gln Val Gly Thr Gln Asp Ser Phe Ile Ala Ala Val Tyr Glu 20 25 30

His Ala Val Ile Leu Pro Asn Lys Thr Glu Thr Pro Val Ser Gln Glu 35 40 45

Asp Ala Leu Asn Leu Met Asn Glu Asn Ile Asp Ile Leu Glu Thr Ala 50 55 60

Ile Lys Gln Ala Ala Glu Gln Gly Ala Arg Ile Ile Val Thr Pro Glu 65 70 75 80

Asp Ala Leu Tyr Gly Trp Lys Phe Thr Arg Glu Thr Val Phe Pro Tyr
85 90 95

Leu Glu Asp Ile Pro Asp Pro Gln Val Asn Trp Ile Pro Cys Gln Asp
100 105 110

Pro His Arg Phe Gly His Thr Pro Val Gln Ala Arg Leu Ser Cys Leu 115 120 125

Ala Lys Asp Asn Ser Ile Tyr Val Leu Ala Asn Leu Gly Asp Lys Lys 130 135 140

Pro Cys Asn Ser Arg Asp Ser Thr Cys Pro Pro Asn Gly Tyr Phe Gln 145 150 155 160

Tyr Asn Thr Asn Val Val Tyr Asn Thr Glu Gly Lys Leu Val Ala Arg 165 170 175

Tyr His Lys Tyr His Leu Tyr Ser Glu Pro Gln Phe Asn Val Pro Glu
180 185 190

Lys Pro Glu Leu Val Thr Phe Asn Thr Ala Phe Gly Arg Phe Gly Ile 195 200 205

Phe Thr Cys Phe Asp Ile Phe Phe Tyr Asp Pro Gly Val Thr Leu Val 210 215 220

Lys Asp Phe His Val Asp Thr Ile Leu Phe Pro Thr Ala Trp Met Asn Val Leu Pro Leu Leu Thr Ala Ile Glu Phe His Ser Ala Trp Ala Met 245 250 Gly Met Gly Val Asn Leu Leu Val Ala Asn Thr His His Val Ser Leu 265 Asn Met Thr Gly Ser Gly Ile Tyr Ala Pro Asn Gly Pro Lys Val Tyr 280 285 His Tyr Asp Met Lys Thr Glu Leu Gly Lys Leu Leu Ser Glu Val 295 Asp Ser His Pro Leu Ser Ser Leu Ala Tyr Pro Thr Ala Val Asn Trp 305 310 Asn Ala Tyr Ala Thr Thr Ile Lys Pro Phe Pro Val Gln Lys Asn Thr Phe Arg Gly Phe Ile Ser Arg Asp Gly Phe Asn Phe Thr Glu Leu Phe 345 Glu Asn Ala Gly Asn Leu Thr Val Cys Gln Lys Glu Leu Cys Cys His 360 Leu Ser Tyr Arg Met Leu Gln Lys Glu Glu Asn Glu Val Tyr Val Leu 375 Gly Ala Phe Thr Gly Leu His Gly Arg Arg Arg Glu Tyr Trp Gln Val Cys Thr Met Leu Lys Cys Lys Thr Thr Asn Leu Thr Thr Cys Gly 410 Arg Pro Val Glu Thr Ala Ser Thr Arg Phe Glu Met Phe Ser Leu Ser 420 425 Gly Thr Phe Gly Thr Glu Tyr Val Phe Pro Glu Val Leu Leu Thr Glu Ile His Leu Ser Pro Gly Lys Phe Glu Val Leu Lys Asp Gly Arg Leu 455 Val Asn Lys Asn Gly Ser Ser Gly Pro Ile Leu Thr Val Ser Leu Phe 470 475 Gly Arg Trp Tyr Thr Lys Asp Ser Leu Tyr Ser Ser Cys Gly Thr Ser 485 Asn Ser Ala Ile Thr Tyr Leu Leu Ile Phe Ile Leu Leu Met Ile Ile 505 510 Ala Leu Gln Asn Ile Val Met Leu 515 520

<210> 3958

<211> 37
<212> PRT
<213> Homo sapiens

<400> 3958
Met Gly Leu Pro Val Ser Trp Ala Pro Pro Ala Leu Trp Val Leu Gly
1 5 10 15

Cys Cys Ala Leu Leu Leu Ser Leu Trp Ala Leu Cys Thr Ala Cys Arg 20 25 30

Arg Pro Arg Thr Leu 35

<210> 3959 <211> 35 <212> PRT

<213> Homo sapiens

<400> 3959
Met Asn Val Ser Ile Phe Leu Val Gly Leu Phe Leu Ile Ile Glu Leu
1 5 10 15

Tyr Ile Ala Gly Ser Leu Thr Thr Ser Leu Glu Phe Gln Glu Ala 20 25 30

Phe Ala Arg 35

<210> 3960 <211> 47 <212> PRT <213> Homo sapiens

<400> 3960
Met Leu Phe Leu Cys Asn Asn Trp Leu Val Ser Leu Phe Cys Ser Leu

Leu Ile Gly Ser Cys Phe Leu Cys Val Gln Asn Lys Asn Lys Phe Gly

<210> 3961 <211> 46 <212> PRT <213> Homo sapiens

<400> 3961
Met Pro Glu Pro Leu Leu Gly Leu Ser Val Val Phe Thr Leu Val Leu
1 5 10 15

Gly His Pro Ser Phe Gly Arg Gly Gly Lys Ala Ala Gly Lys Met Glu 20 25 30 Thr Val Gly Gly Val Cys Leu Pro Ile Gly Leu Ala Leu Val 35 40 45

<210> 3962

<211> 19

<212> PRT

<213> Homo sapiens

<400> 3962

Met Ala Trp Val Gly Leu Ala Ser Leu Gly Val Cys Cys Pro Ile Ser 1 5 10 15

Arg Val Pro

<210> 3963

<211> 34

<212> PRT

<213> Homo sapiens

<400> 3963

Met Cys Ile Leu Val Leu Val Leu Ser Val Ile Ile Leu Ile Leu Gly

1 10 15

Leu Ile Ile Trp Leu Val Tyr Lys Thr Asn Asp Cys Leu Arg Ser Phe 20 25 30

Ser Arg

<210> 3964

<211> 67

<212> PRT

<213> Homo sapiens

<400> 3964

Pro Phe Leu Gly Trp Asn Gln Gly Ala Trp Val Gly Val Ala Ala Gly
1 5 10 15

Asn Met Pro Pro Cys Leu Ala Leu Cys Arg Asn Pro Trp Lys Ile Arg 20 25 30

Pro Ser Ser Leu Pro Leu Ser Ala Ser Cys Thr Arg Ala Arg Ser Arg
35 40 45

Met Ser Ala Leu Pro Gln Pro Ala Pro Ser Gly Val Phe Ala Ser Ser 50 55 60

Asp Gly Arg 65

<210> 3965

<211> 257

<212> PRT

<213> Homo sapiens

<400> 3965

Met Asp Phe Ile Gln His Leu Gly Val Cys Cys Leu Val Ala Leu Ile 1 5 10 15

Ser Val Gly Leu Leu Ser Val Ala Ala Cys Trp Phe Leu Pro Ser Ile 20 25 30

Ile Ala Ala Ala Ser Trp Ile Ile Thr Cys Val Leu Leu Cys Cys 35 40 45

Ser Lys His Ala Arg Cys Phe Ile Leu Leu Val Phe Leu Ser Cys Gly 50 55 60

Leu Arg Glu Gly Arg Asn Ala Leu Ile Ala Ala Gly Thr Gly Ile Val 65 70 75 80

Ile Leu Gly His Val Glu Asn Ile Phe His Asn Phe Lys Gly Leu Leu 85 90 95

Asp Gly Met Thr Cys Asn Leu Arg Ala Lys Ser Phe Ser Ile His Phe
100 105 110

Pro Leu Leu Lys Lys Tyr Ile Glu Ala Ile Gln Trp Ile Tyr Gly Leu 115 120 125

Ala Thr Pro Leu Ser Val Phe Asp Asp Leu Val Ser Trp Asn Gln Thr 130 140

Leu Ala Val Ser Leu Phe Ser Pro Ser His Val Leu Glu Ala Gln Leu 145 150 155 160

Asn Asp Ser Lys Gly Glu Val Leu Ser Val Leu Tyr Gln Met Ala Thr 165 170 175

Thr Thr Glu Val Leu Ser Ser Leu Gly Gln Lys Leu Leu Ala Phe Ala 180 185 190

Gly Leu Ser Leu Val Leu Leu Gly Thr Gly Leu Phe Met Lys Arg Phe 195 200 205

Leu Gly Pro Cys Gly Trp Lys Tyr Glu Asn Ile Tyr Ile Thr Arg Gln 210 215 220

Phe Val Gln Phe Asp Glu Arg Glu Arg His Gln Gln Arg Pro Cys Val 225 230 235 240

Leu Pro Leu Asn Lys Glu Glu Arg Arg Lys Phe Ile Ser Gly Phe Gln 245 250 255

Ser

<210> 3966

<211> 291

<212> PRT

<213> Homo sapiens

<400> 3966

Met Asp Phe Ile Gln His Leu Gly Val Cys Cys Leu Val Ala Leu Ile 1 5 10 15

Ser Val Gly Leu Leu Ser Val Ala Ala Cys Trp Phe Leu Pro Ser Ile 20 25 30

Ile Ala Ala Ala Ser Trp Ile Ile Thr Cys Val Leu Leu Cys Cys 35 40 45

Ser Lys His Ala Arg Cys Phe Ile Leu Leu Val Phe Leu Ser Cys Gly 50 55 60

Leu Arg Glu Gly Arg Asn Ala Leu Ile Ala Ala Gly Thr Gly Ile Val
65 70 75 80

Ile Leu Gly His Val Glu Asn Ile Phe His Asn Phe Lys Gly Leu Leu 85 90 95

Asp Gly Met Thr Cys Asn Leu Arg Ala Lys Ser Phe Ser Ile His Phe 100 105 110

Pro Leu Leu Lys Lys Tyr Ile Glu Ala Ile Gln Trp Ile Tyr Gly Leu 115 120 125

Ala Thr Pro Leu Ser Val Phe Asp Asp Leu Val Ser Trp Asn Gln Thr 130 140

Leu Ala Val Ser Leu Phe Ser Pro Ser His Val Leu Glu Ala Gln Leu 145 150 155 160

Asn Asp Ser Lys Gly Glu Val Leu Ser Val Leu Tyr Gln Met Ala Thr 165 170 175

Thr Thr Glu Val Leu Ser Ser Leu Gly Gln Lys Leu Leu Ala Phe Ala 180 185 190

Gly Leu Ser Leu Val Leu Leu Gly Thr Gly Leu Phe Met Lys Arg Phe
195 200 205

Leu Gly Pro Cys Gly Trp Lys Tyr Glu Asn Ile Tyr Ile Thr Arg Gln 210 215 220

Phe Val Gln Phe Asp Glu Arg Glu Arg His Gln Gln Arg Pro Cys Met 225 230 235 240

Leu Pro Leu Asn Lys Glu Glu Arg Arg Lys Asn Lys Glu Leu Lys Ile 245 250 255

Leu Ser Met Ile Leu Pro Leu Ile Tyr Leu Cys Leu Asn Pro Thr Val 260 265 270

Ser Gln Asn Gln Asn Ser Phe Tyr Leu Arg Pro Gly Phe Leu Ser Val 275 280 285

Leu Phe Phe 290

20

Gln Gln Ser Glu Gln Pro Arg Gly Pro Ile Pro His Ile Leu Gln Val

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<210> 3970
<211> 23
<212> PRT
<213> Homo sapiens
<400> 3970
Met Leu Phe Leu Lys Val Cys Leu Cys Leu Phe Lys Ser Tyr Ser Met
Ala Ser Trp Glu Ala Leu Arg
             20
<210> 3971
<211> 82
<212> PRT
<213> Homo sapiens
<400> 3971
Met Gly Leu Leu Trp Gly Cys Phe Cys Thr Arg Gly Leu Pro Arg
Cys Ala Pro Cys Leu Pro Pro Thr Trp Leu Ser Leu Leu Gly Arg
             20
                                 25
Thr Arg Pro His Val Leu Arg Met Leu Gln Lys Cys Gly Pro Trp Arg
Asp Pro Lys Asp Thr Trp His Arg Pro Gly Arg Gly Arg Pro Arg Leu
Val Ser Ala Pro Phe His Gly Gln Thr Gly Leu Leu Ser Cys Thr Ile
Asn Leu
<210> 3972
<211> 31
<212> PRT
<213> Homo sapiens
```

Met Glu Ser Ile Leu Met Ile Leu Ile Leu Ser Val Pro Thr Trp Arg

25

Met His Leu Leu Leu Glu Val Ser Ala Val Ala Gly Leu Leu

5

<210> 3973 <211> 11

<400> 3972

1

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<212> PRT
<213> Homo sapiens
<400> 3973
Gln Thr Ala Leu Arg Arg Pro His Gly Pro Arg
                  5
<210> 3974
<211> 49
<212> PRT
<213> Homo sapiens
<400> 3974
Arg Met Leu Leu Phe Ile Tyr Leu Leu Val Asp Gly His Leu Gly
Trp Phe His Ile Phe Ala Ile Ala Asn Cys Ala Ala Ile Asn Met His
Val Gln Val Ser Phe Ser Asn Asn Asp Phe Phe Leu Leu Thr Pro Cys
                              40
Ser
<210> 3975
<211> 26
<212> PRT
<213> Homo sapiens
<400> 3975
Met Phe Thr Leu Ser Leu Leu Phe Lys Leu Phe Arg Ile Ser Phe Ser
Leu Pro Phe Arg Arg Ser Val Phe Thr Leu
             20
<210> 3976
<211> 86
<212> PRT
<213> Homo sapiens
<400> 3976
Met Leu Ser Tyr Ser Ser Ala Met Phe Ser Gln Lys Lys Leu Ile Thr
Ser Ser Leu Leu Trp Leu Leu Gln Leu Gln Glu Val Pro Ala Met Ser
His Val Val Phe Asp Gln Trp Ser Pro Val Pro Gly Gln Arg Arg Gln
```

Leu Tyr Asn Val Ile Cys Val Val Lys Ile Leu Pro Leu Thr Gln Asn

Gly Thr Val Gln Ser Leu Ser Val Tyr Met Glu Lys Ser His Ala Pro 65 70 75 80

Gly Leu Thr Gln Lys Lys 85

<210> 3977

<211> 58

<212> PRT

<213> Homo sapiens

<400> 3977

Leu Arg Phe Leu Leu His Ser Ser Leu Gly Ile Ser Val Cys Phe 1 5 10 15

His Ala Ala Asp Lys Asp Ile Pro Glu Thr Gly Lys Lys Lys Arg Phe 20 25 30

Asn Trp Thr Tyr Ser Ser Arg Val Ser Gly Arg Pro Pro Cys Pro Arg 35 40 45

Ser Leu Val Asn Ala Leu Thr Leu Thr Gly 50 55

<210> 3978

<211> 74

<212> PRT

<213> Homo sapiens

<400> 3978

Met Thr Val Ser Leu Val Ser Arg Ser Ser Val Phe Asn Thr Cys Ile 1 5 10 15

Tyr Asn Ala Gln Ala Arg Arg Pro Cys His Gln Pro Asn Val Ile Thr
20 25 30

Ala Gly Arg Trp Lys Met Ser Leu Lys Gln Ser Leu Cys Ala Leu Phe
35 40 45

Val Leu Ser Leu Ile Gln Ser Asn Leu Lys Pro Gln Thr Asp Leu Pro 50 55 60

Pro Val Leu Phe Ser Gly Gly Phe Ser Pro 65 70

<210> 3979

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3979

Met Lys Trp Arg Cys Leu Met Cys Phe Thr Leu Ala Cys Leu Thr Val 1 5 10 15

Phe Tyr Leu Thr Val Asn Ser Ala Val Phe Tyr Cys Glu Arg Lys Pro 20 25 30

Gln Cys Leu Ser Ser Leu Arg Asn Trp Gly Glu Arg Trp Thr Thr Thr 35 40 45

Val Val His Phe Leu Ser Val Leu Gly Glu Cys His Thr Phe Pro Ser 50 55 60

Gln Ser Lys Arg Asn Leu Xaa Glu Ile Leu Arg Glu Thr Val Ser Pro 65 70 75 80

Gln Val

<210> 3980

<211> 44

<212> PRT

<213> Homo sapiens

<400> 3980

Lys Phe Met Leu Cys Val Ser Met Val Cys Phe Ile Leu Leu Ser 1 5 10 15

Ile Leu Leu Tyr Glu Tyr Thr Lys Ile Cys Val Ser Val His Arg Leu 20 25 30

Ile Asp Ile Trp Val Ile Thr Thr Leu Lys Leu Leu 35 40

<210> 3981

<211> 32

<212> PRT

<213> Homo sapiens

<400> 3981

Met Val Arg Ile Leu Ser Met Val Val Ile Ile Ile Ile Ile Ile Asn 1 5 10 15

Gly Ser Pro Leu Cys Val Leu Ser Tyr Phe Ile Phe Thr Ile Phe Thr 20 25 30

<210> 3982

<211> 28

<212> PRT

<213> Homo sapiens

<400> 3982

Met Met Gly Ile Trp Gly Ile Glu Arg Ser Trp Val Gly Asn Ile Ala 1 5 10 15

Trp Val Ile Ser Leu Leu Thr Leu Tyr Cys Lys Val 20 25

<210> 3983

<211> 137

<212> PRT

<213> Homo sapiens

<400> 3983

Ile Thr His His Ala Val Ile Leu Phe Val Leu Val Pro Val Ala Gln
1 5 10 15

Arg Leu Arg Gly Asp Leu Gly Asp Phe Phe Val Gly Cys Ile Phe Thr 20 25 30

Ala Glu Leu Ser Thr Pro Phe Val Ser Leu Gly Arg Val Leu Ile Gln 35 40 45

Leu Lys Gln Gln His Thr Leu Leu Tyr Lys Val Asn Gly Ile Leu Thr 50 55 60

Leu Ala Thr Phe Leu Ser Cys Arg Ile Leu Leu Phe Pro Phe Met Tyr 65 70 75 80

Trp Ser Tyr Gly Arg Gln Gln Gly Leu Ser Leu Leu Gln Val Pro Phe 85 90 95

Ser Ile Pro Phe Tyr Cys Asn Val Ala Asn Ala Phe Leu Val Ala Pro 100 105 110

Gln Ile Tyr Trp Phe Cys Leu Leu Cys Arg Lys Ala Val Arg Leu Phe 115 120 125

Asp Thr Pro Gln Ala Lys Lys Asp Gly

<210> 3984

<211> 42

<212> PRT

<213> Homo sapiens

<400> 3984

Leu Phe Leu Phe Phe Leu Ser Pro Ser Asp Phe Ser Ala Tyr His Leu
1 10 15

His Phe Ser Pro Leu Thr His Ser Glu Leu Ile Glu Ser Cys Phe Cys 20 25 30

His His His Thr Thr Glu Thr Gly His Arg
35 40

<210> 3985

<211> 38 <212> PRT <213> Homo sapiens

<400> 3985

Met Val Ile Phe Cys Ser Leu Leu Ser Leu Ile Ala Tyr Ser Ile Met 1 5 10 15

Ala Phe Leu Lys Lys Asn Leu Cys Ile Phe Ser His Pro Tyr Leu Phe 20 25 30

Ala Tyr Phe Ser Asn His
35

<210> 3986 <211> 32 <212> PRT <213> Homo sapiens

<400> 3986

Met Tyr Tyr Ile Ser Thr Phe Leu Ile Leu Thr Trp Ala Tyr Ala Leu $1 \hspace{1.5cm} 5 \hspace{1.5cm} 10 \hspace{1.5cm} 15$

Ser Leu Ile Val Ile Asn Leu Cys Cys Ser Ser Ile Cys Asn Thr Leu 20 25 30

<210> 3987 <211> 42 <212> PRT <213> Homo sapiens

<400> 3987

Met Asn Ser Asn Arg Leu Glu Leu Leu Leu Tyr Ile Thr Gln Leu Ala 1 5 10 15

Leu Cys Thr Cys Arg Phe Cys Ile Leu Gly Phe Asn Cys Gly Ser Lys 20 25 30

Ile Phe Gly Gly Lys Lys Ala Ile Gln Gln 35 40

<210> 3988 <211> 36 <212> PRT

<213> Homo sapiens

<400> 3988

Met Gly Ser Ile Ala Gly Thr Gln Gly Cys Arg Pro Arg Arg Leu Phe 1 5 10 15

Phe Leu Phe Ser Leu Cys Arg Leu Ile Ser Ser Leu Ser Val Ile Trp
20 25 30

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Phe Pro Cys Pro
         35
<210> 3989
<211> 50
<212> PRT
<213> Homo sapiens
<400> 3989
Met Trp Asn Ile Phe Ser Tyr Val Cys Trp Leu Leu Val Cys Leu Leu
Leu Arg Ser Val Cys Ser Cys Leu Leu Pro Ser Phe Lys Trp Asp Leu
Phe Phe Ala Cys Ser Leu Val His Thr Phe Phe Phe Phe Ile Asp Ser
Gly Cys
     50
<210> 3990
<211> 20
<212> PRT
<213> Homo sapiens
<400> 3990
Ser Gly Glu Gly Ala Trp Val Pro Gly Ala Ser Leu Ala Leu His Gln
Asp Pro Val Glu
             20
<210> 3991
<211> 11
<212> PRT
<213> Homo sapiens
<400> 3991
Met Val Leu Phe Leu Leu Arg Phe Leu Phe Leu
<210> 3992
<211> 15
<212> PRT
<213> Homo sapiens
<400> 3992
Met Glu Thr His Arg Gln Gln Leu Arg Lys Met Val Cys Gln Gln
```

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<210> 3993
<211> 36
<212> PRT
<213> Homo sapiens
<400> 3993
Met Leu Ser Asp Trp Leu Ile Ile Val Leu Gln Cys Tyr Val Gln Val
Thr Leu Ile Leu Leu Ile Val Val Pro Arg Cys Lys Ser Ser Asp Ala
Asp Ile Leu Leu
         35
<210> 3994
<211> 26
<212> PRT
<213> Homo sapiens
<400> 3994
Met Thr Ser Arg Trp Cys His Leu Lys Glu Pro Arg Phe Leu Phe Ser
Val Cys Gly Phe Ile Leu Leu Val Leu Leu
             20
<210> 3995
<211> 38
<212> PRT
<213> Homo sapiens
<400> 3995
Met Ile Ser Cys Leu Asn Ile Leu Arg Val Leu Tyr Leu Leu Trp Gly
Leu Leu Ala Leu Ser Ala Leu Thr Gln Ile Ile Gly Tyr Ile Thr Trp
             20
Leu Met Phe Leu Tyr Thr
         35
<210> 3996
<211> 58
<212> PRT
<213> Homo sapiens
<400> 3996
Met Leu Arg Gln Glu Ile Cys Leu Ile Arg Thr Gly Ser Ser Val Leu
                  5
Ser Val Thr Leu Val Ala Leu Leu Gln Val Ile Thr Leu Val Met
```

25

Tyr Met Thr Leu Arg Ser Lys Arg Gly Leu Leu Thr Met Thr Trp Arg
35 40 45

Tyr Gln Lys Ser Lys Arg Leu Pro Cys Lys 50 55

<210> 3997

<211> 52

<212> PRT

<213> Homo sapiens

<400> 3997

Thr Gln Ser Leu Asp Pro Asp Glu Thr Ser Pro Pro Pro His Leu Cys

1 10 15

Pro His Gln Asp Lys Glu Leu Leu Pro Val Phe Pro Leu Gly His Gly 20 25 30

Ala Ser Cys Pro Pro Ser Ser Pro Ala Arg Asp Pro Lys Ala Gly Thr 35 40 45

Thr Pro Pro Ala 50

<210> 3998

<211> 23

<212> PRT

<213> Homo sapiens

<400> 3998

Met Leu Leu Gln Ser Leu Phe Phe Ser His Glu Leu Gly Val Gly 1 5 10 15

Trp Gly Arg Glu Arg Glu Gly 20

<210> 3999

<211> 21

<212> PRT

<213> Homo sapiens

<400> 3999

Met Pro Cys Phe Ser Leu Leu Ser Leu Pro Leu Trp Asp Pro Leu Val 1 5 10 15

Ile Leu Val Phe Cys

20

<210> 4000

<211> 44

<212> PRT

<213> Homo sapiens

<400> 4000
Met Pro Arg Thr Ser Thr Phe Gln Gln Trp Leu Ser Ser Pro Thr Phe

Trp Trp Leu Val Leu Arg Trp Gly Pro Arg Ile Gly Ser Pro Gln Thr 20 25 30

Ser Trp Gly Cys Lys Arg Ala Gln Pro Trp Pro Gly 35

<210> 4001

<211> 15

<212> PRT

<213> Homo sapiens

<400> 4001

Met Leu Leu Arg Val Phe Leu Val Val Thr Gln Cys Gly Cys 1 5 10 15

<210> 4002

<211> 33

<212> PRT

<213> Homo sapiens

<400> 4002

Met Ser Asp Arg Trp Ser Pro Phe Ile Pro Phe Leu Leu Ala Pro 1 5 10 15

Val Ser Ser Gly Ser Gly His Leu Thr Phe Ser Cys Pro Ala Gly Ser 20 25 30

Ala

<210> 4003

<211> 52

<212> PRT

<213> Homo sapiens

<400> 4003

Met Ala Met Ala Met Ala Arg Ile Thr Pro Pro Thr Met Gly Met Val 1 5 10 15

Trp Pro Leu His Thr Leu Gly Lys Cys Leu Ala Leu Thr Gln Met Gln
20 25 30

Thr Leu Val Pro Arg Val Ala Pro Val Pro Ile Pro Phe Tyr Pro Glu 35 40 45

Leu Thr Ser Ala 50

<210> 4004

<211> 39 <212> PRT <213> Homo sapiens <400> 4004 Met Glu Phe Thr Asn Leu Val Ile Leu Thr Met Phe Leu Lys Leu Gly Leu Ser Phe Pro Phe Trp Phe Val Ala Tyr Asp Val Gly Leu Leu Gly Ile Lys Ser Ser Lys Asn Ser 35 <210> 4005 <211> 36 <212> PRT <213> Homo sapiens <400> 4005 Met Leu Leu Tyr Leu Ser Ser Phe Thr Phe Leu Glu Ser Pro Thr Thr Gly Gln Arg Leu Lys Gly Thr Asp Leu Leu Cys Arg Met Ala Trp 25 Pro Pro Leu Lys 35 <210> 4006 <211> 35 <212> PRT <213> Homo sapiens <400> 4006 Met Leu Ser Ile Met Leu Cys Phe Leu Trp Asn Met Ile Ile Leu Leu Val Ala Ser Ser Ala Tyr Ser Gly Cys Asp Leu Ala Leu Pro Gly Thr Ser Ala Leu 35 <210> 4007 <211> 38 <212> PRT <213> Homo sapiens <400> 4007 Met Gly Lys Ser Val Leu Leu Gly Ser Ile Tyr Tyr Leu Leu Leu Ser 10

Ser His Leu Cys Lys Ser Ala Ile Ser Thr Lys Met Cys Asp Arg Arg

25

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Ser Gln Arg Ile Leu Leu
         35
<210> 4008
<211> 41
<212> PRT
<213> Homo sapiens
<400> 4008
Met Tyr Met Lys Met Met Phe Met Leu Phe Ile Ile Leu Pro Phe Ile
Ile Ser Phe Phe Ile Val Leu Ile Ala Met Ser Phe Ser Ser Leu Ile
Phe Phe Pro Gln Cys Leu Ile Cys His
         35
<210> 4009
<211> 24
<212> PRT
<213> Homo sapiens
<400> 4009
Met Ala Ala Ser Ala Leu Leu Cys Val Val Thr Leu Ile Leu Phe
                                    10
Leu Val Leu His Tyr Ile Val Ser
             20
<210> 4010
<211> 8
<212> PRT
<213> Homo sapiens
<400> 4010
Met Ser Asn Val Gln Leu Gln Arg
<210> 4011
<211> 24
<212> PRT
<213> Homo sapiens
<400> 4011
Ser Phe Phe Val Phe Leu Gly Asp Leu Tyr Phe Phe Gly Glu Met
                                     10
```

Ser Ile Pro Ile Leu Ala His Phe 20

<210> 4014 <211> 90 <212> PRT <213> Homo sapiens

<400> 4014
Met Cys Pro Val Ser Gln Phe Pro Gly Ser Ser Ser Val Cys Cys Pro
1 5 10 15

Phe Ser Ser Ser Gly Ser Ile Val Arg Glu Pro Arg Met Glu Ala Lys 20 25 30

Cys Thr Gly His Trp Leu Phe Phe Gln Cys Pro Ser Asp Ser Pro Cys 35 40 45

Pro Gly Gly Leu Val Pro Ser Leu Ser Val Trp Cys Leu Phe Tyr Lys 50 55 60

Leu Val Met Thr Ser Gly Asn Gly Pro Gly Phe Gln Ile Ala Ile Pro 65 70 75 80

Gly Asp Ile Leu Ile Leu Trp Phe Lys Pro 85 90

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<210> 4015
<211> 33
<212> PRT
<213> Homo sapiens
<400> 4015
Met Tyr Tyr Phe Ile Phe Leu Phe Phe Ser Tyr Val Leu Cys Phe Arg
Ile Phe Leu Glu Ala Ser Ser Lys Ser Cys Phe Val Gly Asn Lys Gln
Ser
<210> 4016
<211> 40
<212> PRT
<213> Homo sapiens
<400> 4016
Ile Asp Phe Phe Leu Phe Pro Thr Ile Ser Ser Ala Ser Pro Phe Ser
                  5
Ser Phe Lys Ile Asn Pro Glu Ser Asp His Cys Gly Leu Asn His Tyr
Tyr Ile Leu Pro Glu Leu Leu Gln
         35
<210> 4017
<211> 35
<212> PRT
<213> Homo sapiens
<400> 4017
Met Gly Trp Val Ile Ala Leu Cys Ser Gln Leu Ser Arg Leu Leu Thr
Leu Phe Leu Leu Arg Leu Phe Leu Asn Arg Lys Ile Arg Ile Leu Ser
Phe Gln Gln
         35
<210> 4018
<211> 34
<212> PRT
<213> Homo sapiens
<400> 4018
Met Gly Leu Leu Trp Leu Ser Val Gly His Thr Ser Pro Gln Lys
```

5 10 15 1 Ala Pro Ala Lys Glu Leu Arg Phe Trp Leu Gly Lys Asn Ile Thr Pro 20 25 Leu Gln <210> 4019 <211> 15 <212> PRT <213> Homo sapiens <400> 4019 Met Pro Ala Leu Ile Asp Gly Ala Glu Arg His Cys Ile Pro Ile 5 <210> 4020 <211> 37 <212> PRT <213> Homo sapiens <400> 4020 Met Leu Leu Ile Phe Thr Phe Ser Ala Leu Val Leu Ser Tyr Pro Leu Leu Ile Leu Gly Asp Trp Val Glu Met Ala Ile Glu His His Thr Leu Leu Thr Lys Thr Ile 35 <210> 4021 <211> 30 <212> PRT <213> Homo sapiens <400> 4021 Met Ala Leu Val Gly Leu Leu Ser Ala Gly Val Pro Gly Val Ser Leu Cys Val Gln Ile Phe Ser Tyr Lys Asp Thr Gly Glu Ile Gly 20 <210> 4022 <211> 2 <212> PRT <213> Homo sapiens <400> 4022 Met Leu 1

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<210> 4023
<211> 39
<212> PRT
<213> Homo sapiens
<400> 4023
Met Phe Phe His Phe Gly Val Asn Ile Ala Trp Ile Phe Phe Leu Val
Pro Arg Leu Ala Phe Ser Ser Gly Asn Leu Ala Val Lys Ile Asn Leu
                                  25
Phe Gln Met Lys Tyr Cys Ile
         35
<210> 4024
<211> 12
<212> PRT
<213> Homo sapiens
<400> 4024
Val Leu Leu Pro His Val Leu Ser Gly Gly Leu
                  5
<210> 4025
<211> 35
<212> PRT
<213> Homo sapiens
<400> 4025
Leu Ile Val Phe His Ile Ile Phe Ile Pro Trp Ile Thr Leu Leu Cys
Val Phe Ile Gly Val Arg Leu Leu Ala Val Ser Tyr Glu Thr Thr Tyr
Tyr Ile Phe
<210> 4026
<211> 19
<212> PRT
<213> Homo sapiens
<400> 4026
Met Thr Ser Tyr Cys Ser Phe Asp Leu His Phe Ser Asp Asp Asn Tyr
                  5
                                     10
Val Glu His
```

<210> 4028
<211> 34
<212> PRT
<213> Homo sapiens
<400> 4028
Met Lys Leu Thr Leu Gly Thr Ala Gly Ser Leu Phe Pro Gln Ala Leu
1 5 10 15

Tyr Ile Leu Leu Asp Phe Ile Trp Val Asn Phe Ile Asp Gly Ser His 20 25 30

Tyr Ile

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<210> 4029
<211> 48
<212> PRT
<213> Homo sapiens
<400> 4029
Met Ala Met Lys Ile Cys Gln Trp Ser Phe Val Cys Gly Leu Leu Gly
```

Thr Val Phe Leu Leu Cys Leu Val Leu Phe Tyr Phe Cys Tyr Ser Arg

Lys Leu Arg Ala His Leu Lys Thr Lys Lys Lys Lys Lys Lys Lys 35 40 45

```
<210> 4030
<211> 9
<212> PRT
<213> Homo sapiens
<400> 4030 .
Met Asn Lys Ile Lys Lys Trp Leu Ile
```

1

5

<210> 4031 <211> 35 <212> PRT <213> Homo sapiens <400> 4031 Met Leu Gly Ser Ser Pro Leu Met Leu Ile Trp Ala Thr Thr Phe Val 5 Arg Ser Ser Ile Ala Cys Ser Leu Ser Ala Leu Phe Ser Pro Arg Asn 25 Thr Phe Leu 35 <210> 4032 <211> 22 <212> PRT <213> Homo sapiens <400> 4032 Met Val Arg Leu Ser Ser Leu Gln Thr Leu Leu Cys Pro Asp Ser His Leu Gly His Phe Ile Gln 20 <210> 4033 <211> 20 <212> PRT <213> Homo sapiens <400> 4033 Met Glu Leu Phe Phe Phe Trp Leu Thr Ile Leu Leu Phe Pro Thr Val 10 Phe Asn Asn Cys 20 <210> 4034 <211> 41 <212> PRT <213> Homo sapiens <400> 4034 Met Gly Asn Val Met Val Thr Phe Ser Arg Leu Ser Cys Leu Ile Pro Ser Ala Ser Ser Leu Leu Cys Leu Asn Ser Cys Thr Gly Cys Leu Val

His Val His Ile Thr Lys Arg Trp Tyr 35 40

<210> 4035

<211> 37

<212> PRT

<213> Homo sapiens

<400> 4035

Met Lys Ser Ala Leu Arg Leu Val Leu Leu Phe Ser Phe His Phe Phe 1 5 10 15

Pro Leu Ile Ile Ser Phe Arg Arg Lys Arg Glu Gly Lys Lys Lys 20 25 30

Lys Ile Arg Asp Leu 35

<210> 4036

<211> 44

<212> PRT

<213> Homo sapiens

<400> 4036

Met Asn His Thr Leu Arg Asn Gln Cys Gly Cys Pro Leu Arg Val Leu 1 5 10 15

Leu Phe Phe Leu Leu Pro Leu Ser Lys Ile Arg Tyr Ser Val Ile Lys

Tyr Ile Ser Ile Lys Val Phe Lys Ser Asp Leu Tyr 35 40

<210> 4037

<211> 40

<212> PRT

<213> Homo sapiens

<400> 4037

Met Ser Lys Gly Leu Arg Lys Glu Ser His Val Phe Phe Leu Leu Phe 1 5 10 15

Ser Asn Leu Val Ile Thr Lys Gln Cys Tyr Gln Cys Ile Thr Tyr Lys 20 25 30

His Phe Ile Ile His Phe His Phe 35

<210> 4038

<211> 50

<212> PRT

<213> Homo sapiens

<400> 4038
Met Leu Thr Phe Leu Val Trp Gln Ala Glu Leu Val Leu Leu Pro Thr
1 5 10 15

Leu Pro Phe Pro Ile Val Thr Ile Tyr Arg Thr Ser His Cys Cys Leu $20 \hspace{1cm} 25 \hspace{1cm} 30$

Leu Cys Val Ala Ser Ala Ser Leu Pro Gly Arg Ser Arg Asn Leu Arg 35 40 45

Ile Ser 50

<210> 4039 <211> 42 <212> PRT

<213> Homo sapiens

Met Tyr Asp Leu Leu Ile Gly Lys Asn Leu Ile Met Val Ser Leu Met 20 25 30

Thr Asn Gln Phe Val Leu Asn Thr Phe Tyr 35 40

<210> 4040 <211> 17 <212> PRT

<213> Homo sapiens

<400> 4040

Met Val Ile Thr Val Ala Thr Leu Val Ser Leu Leu Ile Asp Ala Ser 1 5 10 15

Gly

<210> 4041 <211> 6 <212> PRT

<213> Homo sapiens

<400> 4041 Ser Thr Ile Leu Cys Phe 1 5

<210> 4042 <211> 33 <212> PRT <213> Homo sapiens

Ala Cys Asn Ser Trp Arg Ser Leu Arg Gln Met Ser Pro Lys Tyr Ser 20 25 30

Thr

<210> 4043 <211> 20

<212> PRT

<213> Homo sapiens

<400> 4043

Met Thr Arg Gly Thr Leu Pro Pro Thr Leu Leu Gly Leu Ser Phe Leu 1 5 10 15

Ser Ser Gln Leu 20

<210> 4044 <211> 138

<212> PRT

<213> Homo sapiens

<400> 4044

Met Glu Lys Ile Asn Phe Leu Val Glu Ile Gln Trp Leu Thr Lys Pro 1 5 10 15

Ser Leu Ile Leu Ser Gln Pro Ala Gln Leu Arg Pro Val Arg Arg Leu 20 25 30

Pro Ala Thr Ile Thr Arg Leu Ala Val Ala Met Thr Pro Gly Gln Pro
35 40 45

Gly Val Pro Pro Asn Leu Gly Thr Gly Lys Ala Gln Lys Ala Gly Gly 50 55 60

Pro Ser Gln Arg Gly Leu Glu Pro Lys Glu Thr Gln Thr Leu Pro Thr 65 70 75 80

Thr Gly Thr Leu Pro Ser Ala Thr Pro Arg Pro Thr Lys Asp Gln Gln 85 90 95

Leu Val Met Met Met Thr Gly Met Lys Thr Gly Met Gly Pro Asn Pro
100 105 110

Leu Pro Thr Leu Arg Ile Gln Ser Gln Leu Met Gln Ala Ala Leu Ser 115 120 125

Glu Glu Thr Val Val Leu Val Pro His Pro 130 135

```
<210> 4045
<211> 58
<212> PRT
<213> Homo sapiens
<400> 4045
Met Ile Lys Arg Phe Leu Pro Ser Arg His Arg Pro Gly Val Cys Gln
Leu Trp Gly Asn Ser Thr Leu Cys Val Ser Asn Leu His Glu Glu His
             20
His Pro Cys Lys Ser Ser Arg Pro Gly Glu Ala Ser Ser Pro Pro His
Phe Ser Asn Ser Thr Gln Asp Asn Thr Leu
                         55
<210> 4046
<211> 5
<212> PRT
<213> Homo sapiens
<400> 4046
Met Arg Glu Cys Ser
<210> 4047
<211> 29
<212> PRT
<213> Homo sapiens
<400> 4047
Met Ala Gly Leu Val Leu Val Phe Leu Gly Ile Leu Leu Phe Glu Ala
Gln His Ser Gln Arg Asn Pro Gln Asp Ala Ala Gly Arg
<210> 4048
<211> 3
<212> PRT
<213> Homo sapiens
<400> 4048
Pro Pro Arg
 1
<210> 4049
<211> 12
<212> PRT
<213> Homo sapiens
```

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<400> 4049
Met Lys Leu Leu Ile Val Ile Phe Phe His Phe Leu
                  5
<210> 4050
<211> 62
<212> PRT
<213> Homo sapiens
<400> 4050
Met Leu Phe Ser Leu Leu His Leu Gly Phe Cys Ala Tyr Glu Ser Asn
Leu Ile Leu Phe Gln Met Ala Ile Pro Ile Pro Gly Gln Leu Val Lys
Lys Ser Phe Phe Pro Ser Leu Ile Trp Val Ala Gly Thr Gly Pro Val
Pro Val Ser Ser Gly Ala Tyr Pro Thr Leu Phe Ser Leu Gln
                         55
<210> 4051
<211> 4
<212> PRT
<213> Homo sapiens
<400> 4051
Gln Val Trp Leu
 1
<210> 4052
<211> 46
<212> PRT
<213> Homo sapiens
<400> 4052
Thr Arg Gln Arg Leu Lys Ala Leu Ser Leu Arg Asn Cys Val Thr Leu
                                     10
Val Thr Leu Phe Asp Phe Ser Leu Leu Lys Phe Ser His Met Gly Met
             20
Val Arg Lys Ile Pro Thr Ser Gln Asp Phe Leu Thr Ile Leu
         35
                             40
```

```
<210> 4053
<211> 34
<212> PRT
<213> Homo sapiens
<400> 4053
```

Met Ala Ala Leu Leu Pro Leu His Leu Cys Leu Cys Ala Pro Asp 1 5 10 15

Val Ser Leu Cys Val Ser Lys His His Leu Ile Arg Thr Pro Val Gly 20 25 30

Thr Asp

<210> 4054 <211> 24 <212> PRT

<213> Homo sapiens

<400> 4054

Met Ser Ile Thr Leu Leu Phe Ala Val Leu Thr Leu Leu Cys Asn Gly
1 5 10 15

Thr Pro Glu Leu Ile Leu Pro Val 20

<210> 4055 <211> 35

<212> PRT

<213> Homo sapiens

<400> 4055

Met Lys His Phe Cys Asn Leu Leu Cys Ile Leu Met Phe Cys Asn Gln 1 5 10 15

Gln Ser Val Cys Asp Pro Pro Ser Gln Asn Asn Ala Gly Lys Ile Asn 20 25 30

Leu Arg Tyr 35

<210> 4056

<211> 35

<212> PRT

<213> Homo sapiens

<400> 4056

Met Leu Gly Ser Lys Ala Ser Leu Arg Ile Leu Leu Cys Leu Phe Phe $1 \hspace{1.5cm} 5 \hspace{1.5cm} 10 \hspace{1.5cm} 15$

Phe Leu Pro Arg His Ser Ser Ser Asp Asn Cys Cys Pro Ser Cys Thr 20 25 30

Ala Gly Gly 35

<210> 4057 <211> 24

<210> 4061 <211> 10

```
<212> PRT
<213> Homo sapiens
<400> 4057
Phe Trp Trp Val Cys Gly Leu Ala Gly Phe Arg Ser Glu Ala Thr Asp
Leu His Gly Glu Cys Cys Ser Ser
             20
<210> 4058
<211> 28
<212> PRT
<213> Homo sapiens
<400> 4058
Lys Lys Ile Ser Leu Ser Leu Leu Phe Phe Cys Ser Leu Leu Lys Ser
                  5
                                     10
Lys Gln Asn Leu Leu Ser Pro Val Asn Thr Thr
             20
<210> 4059
<211> 21
<212> PRT
<213> Homo sapiens
<400> 4059
Met Arg Arg Glu Pro Lys Ala Gln Leu Ser Val Ser Cys Leu Ala Ala
Met Ser Phe Leu Tyr
<210> 4060
<211> 17
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 4060
Gly Val Val Ala Val Val Phe Xaa Phe Ser Ser Leu Leu Phe Arg
                  5
                                     10
                                                         15
Phe
```

```
<212> PRT
<213> Homo sapiens
<400> 4061
Leu Val Leu Phe Val Ile Lys Gly Thr Ile
                  5
  1
<210> 4062
<211> 28
<212> PRT
<213> Homo sapiens
<400> 4062
Met Phe Gly Trp Cys His His Leu Phe Phe Cys Met Leu Phe Ser Leu
Trp Arg Gly His Leu Cys Val Tyr Arg Arg Lys Met
<210> 4063
<211> 31
<212> PRT
<213> Homo sapiens
<400> 4063
Met Arg Gly Ala Trp Cys Val Cys Leu Cys Val Cys Val Tyr Gly Tyr
Asn Ser Phe Ile Phe Val Ala Ser Glu Arg Leu Cys Arg Ala Leu
<210> 4064
<211> 37
<212> PRT
<213> Homo sapiens
<400> 4064
His Leu Pro Ser Ile Ile Pro Val Leu Val Tyr Val Leu Pro Lys Arg
Ala Trp Lys Phe Ile Leu Ala Val Ser Leu Cys Trp Ala Asp Tyr Pro
Ile Lys Val Pro Leu
         35
<210> 4065
<211> 177
<212> PRT
<213> Homo sapiens
<400> 4065
Met Gly Leu Met Lys Ala Asn His Val Phe Phe Leu Leu Tyr Leu Leu
```

<210> 4066

1				5					10					15	
His	Ile	Leu	Leu 20	Leu	Asp	Gly	Ala	Ala 25	Trp	Leu	Thr	Leu	Trp 30	Val	Phe
Gly	Thr	Ser 35	Phe	Leu	Pro	Phe	Leu 40	Leu	Cys	Ala	Val	Leu 45	Leu	Ser	Ala
Val	Gln 50	Ala	Gln	Ala	Gly	Trp 55	Leu	Gln	His	Asp	Phe 60	Gly	His	Leu	Ser
Val 65	Phe	Ser	Thr	Ser	Lys 70	Trp	Asn	His	Leu	Leu 75	His	His	Phe	Val	Ile 80
Gly	His	Leu	Lys	Gly 85	Ala	Pro	Ala	Ser	Trp 90	Trp	Asn	His	Met	His 95	Phe
Gln	His	His	Ala 100	Lys	Pro	Asn	Cys	Phe 105	Arg	Lys	Asp	Pro	Asp 110	Ile	Asn
Met	His	Pro 115	Phe	Phe	Phe	Ala	Leu 120	Gly	Lys	Ile	Leu	Ser 125	Val	Glu	Leu
Gly	Lys 130	Gln	Lys	Lys	Lys	Туг 135	Met	Pro	Tyr	Asn	His 140	Gln	His	Lys	Tyr
Phe 145	Phe	Leu	Ile	Gly	Pro 150	Pro	Ala	Leu	Leu	Pro 155	Leu	Tyr	Phe	Gln	Trp 160
Tyr	Ile	Phe	Tyr	Phe 165	Val	Ile	Gln	Arg	Lys 170	Asn	Gly	Trp	Thr	Trp 175	Pro
Gly															

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<210> 4067
<211> 13
<212> PRT
<213> Homo sapiens
<400> 4067
Pro Ser Leu Val Ser Cys Ala Ser Leu Leu Thr Val Met
                  5
<210> 4068
<211> 24
<212> PRT
<213> Homo sapiens
<400> 4068
Met His Tyr Ile Leu Lys Tyr Ser Met Thr Gly Phe Cys Pro Cys Leu
                                     10
Trp Ala Phe Ile Phe Leu Met Gly
             20
<210> 4069
<211> 27
<212> PRT
<213> Homo sapiens
<400> 4069
Met Cys Ile Ile Leu Leu Val Val Phe His Lys Ser Gln Phe Ser
Ser Leu Val Val Gly Pro Lys Ser Ser Val Ser
<210> 4070
<211> 18
<212> PRT
<213> Homo sapiens
<400> 4070
Met Thr Trp Pro Ile Arg Pro Gly Ile Phe Ala Val Trp Leu Tyr
 1
                  5
                                     10
Ala Val
<210> 4071
<211> 54
<212> PRT
<213> Homo sapiens
<220>
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<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 4071
Met His Tyr Val Cys Ser Phe Leu Lys Lys Ile Leu Ile Val Phe Xaa
Cys Ser Val Pro Cys Leu Phe Ser Xaa Val Cys Pro Val Thr Leu Ser
             20
Ile Leu Asp Tyr Lys Leu Ile Lys Ala Leu Xaa Met Leu Phe Ser Leu
                             40
Phe Leu Asn Leu Asn Ile
     50
<210> 4072
<211> 78
<212> PRT
<213> Homo sapiens
<400> 4072
Met Tyr Leu Leu Ser Thr Tyr Leu Leu Trp Cys Ser Thr Leu Val Thr
Ala Ser Tyr Leu Asn Phe Pro Arg Val Val Pro Tyr Ser Val Phe Ser
Asp Met Val Phe Gln Ser Val Cys Val Thr Tyr Leu Leu Phe Ile Ser
His Cys Arg Trp Leu Cys Leu Leu His His Lys Lys Phe Lys Leu
Cys Ala Leu Ile Asn Cys Val Leu Leu Lys Arg Leu Val Gly
 65
<210> 4073
<211> 3
<212> PRT
<213> Homo sapiens
<400> 4073
Leu Asn Leu
  1
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1

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<210> 4074
<211> 33
<212> PRT
<213> Homo sapiens
<400> 4074
Met Leu Gly Ser Leu Met Ala Arg Leu Asn Met Leu Val Pro Ser Ser
                  5
                                     10
Trp Ala Gly Ser Leu Ala Ser Ala Pro Met Ile Ala Thr Ala Ala Ile
                                 25
Lys
<210> 4075
<211> 37
<212> PRT
<213> Homo sapiens
<400> 4075
Met Ala Asn Leu Pro Leu Ile Leu Ile Met Leu Val Val Gly Met Met
                                     10
Gly Val Thr Ile Asn Thr Leu Ser Thr His Val Gln Thr Leu Phe Gln
                                 25
Ala Val Phe Ile Tyr
         35
<210> 4076
<211> 38
<212> PRT
<213> Homo sapiens
<400> 4076
Met Lys Lys Pro Ser Ala Ser Lys Met His Thr Leu Ile Leu Pro Ile
                                     10
Ala Leu Leu Ala Gly Pro Val Gln Leu Thr His Phe Ser Gly Thr
             20
Ala Ala Asp Ser Leu Leu
         35
<210> 4077
<211> 22
<212> PRT
<213> Homo sapiens
Met Ala Thr His Leu Phe Ile Tyr Leu Leu Val Ala Val Phe Cys Tyr
                 5
```

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Ser Cys Ser Val Leu Tyr
20
```

<210> 4078

<211> 12

<212> PRT

<213> Homo sapiens

<400> 4078

Arg Leu Cys Arg Ser Phe Thr Phe Cys Phe Cys Ser

<210> 4079

<211> 53

<212> PRT

<213> Homo sapiens

<400> 4079

Met Arg Ile Val Ser Asp Ser Cys Phe Ser Phe Pro Phe Ser Pro Pro $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$

Leu Ser Asp Thr Tyr Thr Pro Arg Pro His His Thr Tyr Ala His Cys
20 25 30

Gly Leu His His Ser His Ser Leu Tyr Phe Val Asn Leu Ala Ala Arg $35 \hspace{1cm} 40 \hspace{1cm} 45$

Lys Phe Leu Ser Pro 50

<210> 4080

<211> 64

<212> PRT

<213> Homo sapiens

<400> 4080

Met Val Phe His Glu Thr Ser Pro Pro Pro Glu Val Ile Phe Leu Ile 1 5 10 15

Leu Val Ile Val Asn Ala Leu Ile Ile Asn Arg Lys Asn Met Phe Leu 20 25 30

Asn Asn Leu Gln Met Arg Thr Gln Met Val Val Phe Cys Leu Thr Glu 35 40 45

Val Asn Gln Ile Leu Trp Phe Lys Tyr Asn Ala Lys Phe Gln Asp Ser 50 55 60

<210> 4081

```
<211> 38
<212> PRT
<213> Homo sapiens
<400> 4081
Met Thr Ser Ala Arg Lys Ala Cys Phe Cys Phe Met Trp Ser Leu Ile
                                      10
Leu Gln His Ala His Ser Thr Cys Ser Trp Leu Gly Lys Val Pro Thr
             20
Asp Ile Tyr Lys Ala Ser
         35
<210> 4082
<211> 21
<212> PRT
<213> Homo sapiens
<400> 4082
Met Ile Leu Phe Phe Cys Trp Ala Pro Ile Cys Phe Phe Leu Cys Asn
Glu Ser Leu Lys Glu
             20
<210> 4083
<211> 26
<212> PRT
<213> Homo sapiens
<400> 4083
Met Pro Pro Gly Cys Leu Ala Val Thr Glu Cys Leu Phe Leu Leu Ala
Tyr Trp Ser His Val Ile Phe Val Thr Trp
<210> 4084
<211> 10
<212> PRT
<213> Homo sapiens
<400> 4084
Met Ile His Thr Pro His Asn Ser Pro Ile
<210> 4085
<211> 69
<212> PRT
<213> Homo sapiens
<220>
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<221> SITE <222> (52) <223> Xaa equals any of the naturally occurring L-amino acids <400> 4085 Met Ser Glu Arg His Gly Pro Ser Pro Gln Ser Val Leu Leu Ser Leu 10 Trp Phe Val Leu Thr Leu Thr Pro Phe Leu Phe Leu Thr Leu Leu Ser 25 Cys Met Glu His Thr Ala Pro Ala Pro Phe Gln Ser Ala Trp Gln Thr Pro Gly Leu Xaa Arg Ser Ser Ser Phe Cys Val Pro Phe Arg Ser Ser 55 Leu Cys Ser Val Arg 65 <210> 4086 <211> 30 <212> PRT <213> Homo sapiens <400> 4086 Met Arg Ala Glu Leu His Gly Leu Val Cys Leu Ser Ala Val Ser Thr Met Thr Ala Ala Val Ser Gly Thr Glu Met Pro Asn Ile Cys <210> 4087 <211> 31 <212> PRT <213> Homo sapiens <400> 4087 Asp Thr Leu Leu Ser Pro Trp Leu Leu Val Trp Tyr Val Arg Leu Pro Ala Val Phe Pro Phe Leu Asn Ser Thr Ala Gly Ser Ser Leu Lys 20 <210> 4088 <211> 46 <212> PRT <213> Homo sapiens <400> 4088 Met Ala Ser Ser Val Thr Thr Ile Ser Leu Leu Leu Ala Ser Phe

30

10

Thr Ser Leu Ser Cys Val Trp Tyr Phe Met Phe Ser Cys Gln Asp Cys 25

Val Asp Leu Gln Ile Leu Ser Leu Pro Asp Glu Val Ile Cys 35 40 45

<210> 4089

<211> 34

<212> PRT

<213> Homo sapiens

<400> 4089

Met Ala Ile His Ile Trp Thr Met Tyr Phe Arg Leu Leu His Leu Tyr

1 10 15

Thr Leu Val Pro Ser Ala Gly Gly Trp Gly Val Cys Ala Cys Ile Pro 20 25 30

Arg Gln

<210> 4090

<211> 32

<212> PRT

<213> Homo sapiens

<400> 4090

Asp Phe Leu Leu Ile Glu Trp Phe Ile Ser Leu Lys Thr Phe Glu
1 5 10 15

Met Ala His Glu Leu Leu Gly Gln Ile Met Glu Thr Ser Thr Leu Leu 20 25 30

<210> 4091

<211> 33

<212> PRT

<213> Homo sapiens

<400> 4091

Met Pro Ile Leu Ser His Trp Thr Tyr Val Asp Trp Phe Leu Leu Leu 1 5 10 15

Leu Cys Thr Tyr Lys Tyr Ile Tyr Lys Met Asn Ile Val His Ala Phe 20 25 30

Arg

<210> 4092

<211> 26

<212> PRT

<213> Homo sapiens

<210> 4093

Leu Tyr Ser Lys Asn Asp Pro Ser Met Gly Trp Leu Asn Thr Asp Ile 50 55 60

Glu Gly Ile Leu Pro Gln Lys Ile His Leu Phe Val Ala Gly Asn Phe 65 70 75 80

Pro Leu Leu Ser Cys Val Ile Ser Phe Leu Leu Leu Ala Thr Thr His 85 90 95

His Trp Gly Leu Trp Lys Ile Ile Phe Leu Phe Gly Asn Glu Trp Lys
100 105 110

Ser Lys Arg Pro Tyr Tyr Phe 115

Asn Thr Ala Tyr Ser Lys Cys Val Ser Cys Cys His Asp Val Tyr Pro
35 40 45

Tyr Asn Asn Ser Val Thr Lys Val 50 55

<210> 4097 <211> 89 <212> PRT <213> Homo sapiens

<400> 4097

<210> 4096

Leu Gly Leu Trp Pro Ile Trp Tyr Ala Ser Cys Val Cys Met Val Cys
1 5 10 15

Ala Val Ser Leu His Leu Phe Tyr Thr Ser Trp Gly His Gly Pro Gln
20 25 30

Leu Leu Asp Arg Thr Leu Phe Ser Asn Pro Ala Leu Gly Asp Gln Pro 35 40 45

Ser Leu Ala Asn Ile Cys Met Phe Ser Tyr Ser Cys Leu Leu Lys Gly
50 55 60

Pro Thr Gln Arg Leu Asp Phe Leu Leu Pro Leu Cys Val Gly Thr Val 65 70 75 80

Cys Asp Ile Cys Lys Lys Cys Ala Asn 85

```
<210> 4098
<211> 30
<212> PRT
<213> Homo sapiens
<400> 4098
Met Asn Ala Ser Ile Leu Tyr Leu Cys Leu Val Ser Phe Cys Leu Ser
Ile Gln Glu Ala Phe Ile Lys Gly Pro Pro Cys Ala Ser His
<210> 4099
<211> 40
<212> PRT
<213> Homo sapiens
<400> 4099
Leu Arg Val Ala Thr Leu Pro Gly Val Pro Leu Pro Arg Asp Tyr Gly
Gln Gly Pro Gly Ala Gly Arg Ala Ala Gly Ala Asp Thr Gly Ala Ala
Pro Glu Ser Gly Asn Ser Ala Ser
<210> 4100
<211> 36
<212> PRT
<213> Homo sapiens
<400> 4100
Met Met Asp Ala Leu Val Phe Leu Pro Trp Phe Val Ser Ser Thr Arg
Ala Cys Ala Pro Arg Ile Cys Cys Asn Leu Ile Leu Val Lys Arg Pro
Ser Val Ser Ser
         35
<210> 4101
<211> 40
<212> PRT
<213> Homo sapiens
<400> 4101
Met Asn Phe Ile Ser Val Val Trp Gly Thr Leu Phe Leu Thr Val Gly
                                     10
```

Glu Ala Ile Met Phe Leu Val Gly Gly Cys Ile Leu Phe Gln Ala Val 25

20

Gly Lys Gln Asp Leu Ala Leu His 35 40

<210> 4102

<211> 22

<212> PRT

<213> Homo sapiens

<400> 4102

Met Leu Leu Ser Pro Phe Ile Phe Cys Phe Phe Leu Ile Thr Val Gly
1 5 10 15

Leu Ile Glu Asn Trp Ser 20

<210> 4103

<211> 65

<212> PRT

<213> Homo sapiens

<400> 4103

Met Asn Leu Ser Lys Ala Pro Ala Leu Arg Phe Leu Trp Ser Cys Ser 1 10 15

Ser Ile Thr Gly Ala Ala Gly Asn Leu Asn Thr Thr Ser Trp Ser Thr
20 25 30

Arg Leu Trp Pro Asn Gly Arg Arg Lys Leu Ser Ser Gly Trp Ser 35 40 45

Ser Trp Ala Leu Gly His Leu Phe Thr Gly Lys Gly Phe Tyr Leu Asn 50 60

Glu 65

<210> 4104

<211> 34

<212> PRT

<213> Homo sapiens

<400> 4104

Met Val Tyr Arg Ile Gln His Ala Asp Thr Trp Trp Asp Leu Leu Leu 1 10 15

Leu Gly Phe Cys Tyr Thr Arg Val Ser Val Val Ser Ala Ser Ile Tyr
20 25 30

Val Cys

<210> 4105

<221> SITE <222> (77)

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<211> 47
<212> PRT
<213> Homo sapiens
<400> 4105
Met Val Tyr Arg Ile Gln His Ala Asp Thr Trp Trp Thr Tyr Cys Tyr
                                     10
Trp Gly Phe Val Ile Leu Gly Phe Gln Trp Ser Val Leu Val Phe Met
Tyr Val Asn Pro Arg Cys Ala Leu Asp Ser Gly Tyr Phe Lys Phe
<210> 4106
<211> 2
<212> PRT
<213> Homo sapiens
<400> 4106
Met Val
 1
<210> 4107
<211> 85
<212> PRT
<213> Homo sapiens
<400> 4107
Met Pro Trp Leu Asn Gln Val Leu Arg Ala Ala Ser Leu Ser Pro Arg
Cys Leu Val Trp Val Pro Val Leu Gly Phe Leu Gly Pro Gly Leu Pro
Pro Val Leu Gln Thr Phe Pro Thr Gly Asn Pro Gly Tyr His Pro Cys
                             40
Pro Pro Glu Glu Leu Pro Pro Gly Leu Ser Pro Val Gly Pro Gly
Gly Ala Gly Gly Thr Thr Gly Thr Cys Gly Ala Trp Glu Cys Leu Ser
 65
Cys Cys Ile Gly Pro
<210> 4108
<211> 144
<212> PRT
<213> Homo sapiens
<220>
```

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4108

Ser Val Leu Trp Asn Ala Met Ile His Pro Leu Cys Asn Met Thr Leu 1 5 10 15

Lys Gly Val Val Trp Tyr Gln Gly Glu Ser Asn Ile Asn Tyr Asn Thr 20 25 30

Asp Leu Tyr Asn Cys Thr Phe Pro Ala Leu Ile Glu Asp Trp Arg Glu 35 40 45

Thr Phe His Arg Gly Ser Gln Gly Gln Thr Glu Arg Phe Phe Pro Phe 50 55 60

Gly Leu Val Gln Leu Ser Ser Asp Leu Ser Lys Lys Xaa Ser Asp Asp 65 70 75 80

Gly Phe Pro Gln Ile Arg Trp His Gln Thr Ala Asp Phe Gly Tyr Val 85 90 95

Pro Asn Pro Lys Met Pro Asn Thr Phe Met Ala Val Ala Met Asp Leu 100 105 110

Cys Asp Arg Asp Ser Pro Phe Gly Ser Ile His Pro Arg Asp Lys Gln 115 120 125

Asn Cys Gly Leu Ser Ala Ala Phe Gly Gly Pro Cys Ser Gly Leu Trp 130 135 140

<210> 4109

<211> 13

<212> PRT

<213> Homo sapiens

<400> 4109

Met Ser Pro Thr Gln Arg Cys Pro Ile Leu Ser Trp Leu
1 5 10

<210> 4110

<211> 26

<212> PRT

<213> Homo sapiens

<400> 4110

Met Met Met Leu Thr Leu Tyr Tyr Cys Lys Ile Asn Val Val Tyr Ile 1 5 10 15

Ser Leu Cys Thr Ala Ile Phe Cys Phe Trp 20 25

<210> 4111

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<211> 40
<212> PRT
<213> Homo sapiens
<400> 4111
Met Ser Ala Ala Leu Leu Ser Ser Ser Leu Cys Trp Leu Arg Thr Leu
Ala Tyr Arg Pro Thr Asn Asn Gln Glu Ala Ala Leu Val Gly Thr His
Cys Ser Lys Gln Gly Lys Gln Val
        35
<210> 4112
<211> 20
<212> PRT
<213> Homo sapiens
<400> 4112
Met His Val Ser Val Phe Val Leu Met Leu Leu Pro Trp Gln Arg
                                    10
Lys Lys Clu
<210> 4113
<211> 63
<212> PRT
<213> Homo sapiens
<400> 4113
Met Glu Cys Ser Leu Thr Leu Ala Gly Leu Thr Leu Ala Leu Pro Val
                                    10
Gly Leu Pro Ala Ala Lys Thr Glu Ser Leu His Cys Ser Phe Ser Pro
             20
Val Thr Arg Pro Val Tyr Gly Pro Asn Gly His Ala Ser Glu Asn Leu
                             40
Pro Trp Pro Leu Ser Lys Pro Ser Pro Gly Cys Asn Pro Cys Phe
                        55
     50
<210> 4114
<211> 6
<212> PRT
<213> Homo sapiens
<400> 4114
Ala Ser Cys Leu Cys Val
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<210> 4115
<211> 33
<212> PRT
<213> Homo sapiens
<400> 4115
Met Leu Arg Phe Cys Met Leu Leu Gln Val Leu Phe His Met Cys Val
Cys Gly Val Asp Val Glu Leu Thr Thr Ala Ala Ile Thr Tyr Cys
Ser
<210> 4116
<211> 13
<212> PRT
<213> Homo sapiens
<400> 4116
Phe Phe Phe Phe Phe Ser Gln Arg Leu Thr Lys Leu
                  5
<210> 4117
<211> 40
<212> PRT
<213> Homo sapiens
<400> 4117
Met Arg Arg Asn Met Met Asn Pro Leu Thr Phe Met Leu Leu Gly Cys
Ala Cys Leu Arg Trp Leu His Leu Asn Ile Leu Thr Arg Ser Ala Lys
Met Leu Arg Arg Ser Thr Val Ala
         35
<210> 4118
<211> 14
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 4118
Met Ser Arg Val Gln Ser Trp Cys Pro Ala Trp Xaa Arg Trp
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10

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<210> 4119
<211> 207
<212> PRT
<213> Homo sapiens
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<222> (170)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 4119
Ala Arg Ala Ala Val Val Pro Ala Glu Trp Ile Lys Asn Trp Glu
Lys Ser Gly Arg Gly Glu Phe Leu His Leu Cys Arg Ile Leu Ser Glu
Asn Lys Ser His Asp Ser Ser Thr Tyr Arg Asp Phe Gln Gln Ala Leu
                             40
Tyr Glu Leu Ser Tyr His Val Ile Lys Gly Asn Leu Lys His Glu Gln
Ala Ser Asn Val Leu Ser Asp Ile Ser Glu Phe Arg Glu Asp Met Pro
Ser Ile Leu Ala Asp Val Phe Cys Ile Leu Asp Ile Glu Thr Asn Cys
                                     90
Leu Glu Glu Lys Ser Lys Arg Asp Tyr Phe Thr Gln Leu Val Leu Ala
Cys Leu Tyr Leu Val Ser Asp Thr Val Leu Lys Glu Arg Leu Asp Pro
                            120
Glu Thr Leu Glu Ser Leu Gly Leu Ile Lys Gln Ser Gln Gln Phe Asn
                        135
    130
Gln Lys Ser Val Lys Ile Lys Thr Lys Leu Phe Tyr Lys Gln Gln Lys
                                        155
                    150
Phe Asn Leu Leu Arg Glu Glu Asn Glu Xaa Tyr Ala Lys Leu Ile Ala
                                     170
                165
Glu Leu Gly Gln Asp Leu Ser Gly Ser Ile Thr Ser Asp Leu Ile Leu
            180
                                185
Glu Asn Ile Lys Ser Leu Ile Gly Cys Phe Asn Leu Gly Ser Gln
        195
                            200
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<210> 4120
<211> 33
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<212> PRT

<213> Homo sapiens

<400> 4120

Met Leu Leu Thr Met Gly Phe Ile Gln Ile Leu Pro Val Phe Leu
1 5 10 15

Leu Val Tyr Phe Phe Tyr Ser Arg Val Gln Ser Lys Ile Pro His Cys 20 25 30

Ile

```
<210> 4121
<211> 8
<212> PRT
<213> Homo sapiens
<400> 4121
Met Gly Leu Val Leu Glu Trp Cys
1 5
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<210> 4122 <211> 36 <212> PRT

<213> Homo sapiens

<400> 4122

Met Phe Leu Leu Ala Ile Leu Leu Pro Val Phe Leu Val Ala Trp Gly
1 5 10 15

Gly Lys Thr Lys Glu Ser Gly Trp Arg Ala Glu Gly Cys Arg Ala Val 20 25 30

Thr Leu Leu Leu 35

<210> 4123 <211> 29 <212> PRT

<213> Homo sapiens

<400> 4123

Met Ala Phe Leu Thr Met Arg Ile Leu Phe Phe Ala Tyr Ser Phe Ser 1 5 10 15

Lys Lys His Phe Leu Met Glu Ile Ser Glu His Gly His 20 25

<210> 4124 <211> 28 <212> PRT

<213> Homo sapiens

<400> 4124

Met Pro Val Thr Glu Leu Leu Gln Leu Leu Leu Leu Thr Gln Lys Met
1 5 10 15

Lys Arg Leu Leu Asp Trp Gln Gln Asn Lys Val Glu 20 25 <210> 4125 <211> 61 <212> PRT <213> Homo sapiens <400> 4125 Met Ala Ile Phe Ser Leu Gly Phe Leu Phe Phe Leu Pro Val Ser Arg Asn Ala Leu Phe Ile Pro Leu Pro Asn Leu Ala Ser Ser Val Ser Tyr Val Phe Leu Ser His Lys Leu Glu Cys Phe Ile Phe Ser Tyr Ile Asn Phe Pro Phe Phe Leu Ser Thr Leu Lys Lys Val Gln Gln <210> 4126 <211> 31 <212> PRT <213> Homo sapiens <400> 4126 Met Gly Arg Cys Val Trp Met His Phe Ser Cys Ser Cys Cys Phe Ala Phe Pro Asp Ser Thr Ile Pro Arg Gly Arg Gly Trp Ser Ile Leu <210> 4127 <211> 338 <212> PRT <213> Homo sapiens <400> 4127 Met Ala Asn Asp Pro Leu Glu Gly Phe His Glu Val Asn Leu Ala Ser

Gly Val Thr Ala Gly Leu Thr Lys Leu Thr Thr Arg Lys Asp Asn Tyr 105

Asn Ala Glu Arg Glu Phe Leu Gln Gly Ala Thr Ile Thr Glu Ala Cys 115

Asp Gly Ser Asp Asp Ile Phe Gly Leu Ser Thr Asp Ser Leu Ser Arg 130 135 140

Leu Arg Ser Pro Ser Val Leu Glu Val Arg Glu Lys Gly Tyr Glu Arg 145 150 155 160

Leu Lys Glu Glu Leu Ala Lys Ala Gln Arg Glu Leu Lys Leu Lys Asp 165 170 175

Glu Glu Cys Glu Arg Leu Ser Lys Val Arg Asp Gln Leu Gly Gln Glu 180 185 190

Leu Glu Glu Leu Thr Ala Ser Leu Phe Glu Glu Ala His Lys Met Val 195 200 205

Arg Glu Ala Asn Ile Lys Gln Ala Thr Ala Glu Lys Gln Leu Lys Glu 210 215 220

Ala Gln Gly Lys Ile Asp Val Leu Gln Ala Glu Val Ala Ala Leu Lys 225 230 235 240

Thr Leu Val Leu Ser Ser Ser Pro Thr Ser Pro Thr Gln Glu Pro Leu 245 250 255

Pro Gly Gly Lys Thr Pro Phe Lys Lys Gly His Thr Arg Asn Lys Ser 260 265 270

Thr Ser Ser Ala Met Ser Gly Ser His Gln Asp Leu Ser Val Ile Gln 275 280 285

Pro Ile Val Lys Asp Cys Lys Glu Ala Asp Leu Ser Leu Tyr Asn Glu 290 295 300

Phe Arg Leu Trp Lys Asp Glu Pro Thr Met Asp Arg Thr Val Ser Phe 305 310 315 320

Leu Arg Gln Asn Leu Pro Gly Arg Tyr Leu Ser Met Phe Asn Ile Leu 325 330 335

Lys Lys

<210> 4128

<211> 17

<212> PRT

<213> Homo sapiens

<400> 4128

Met Met Arg Leu Leu Trp Leu Met Ile Pro Trp Lys Ala Ser Met
1 5 10 15

Lys

<210> 4129 <211> 54 <212> PRT <213> Homo sapiens

<400> 4129

Met Tyr Gly Leu Cys Leu Leu Ser His Met Ser Leu Leu Val Val Thr 1 5 10 15

Trp Ala Leu Gly Val Tyr Val Thr Ser Asp His Leu Ala Glu Ile Leu 20 25 30

Gln Ala Pro Thr Pro Lys His Met Ser Ala Leu Leu Leu Glu His Glu 35 40 45

Asp Asn Val Asn Glu Thr 50

<210> 4130 <211> 28 <212> PRT

<213> Homo sapiens

<400> 4130

Met Trp Met Met Leu Gly Thr Val Leu Gly Pro Gly Ile Met Thr Gly
1 5 10 15

Leu Met Met Met Thr Ala Met Arg Ala Arg Val 20 25

<210> 4131 <211> 188

<212> PRT

<213> Homo sapiens

<400> 4131

Gln Gly Ser Arg Glu Leu Leu Leu Ala Leu Ser Trp Leu Leu Ala Arg 1 5 10 15

Gly Pro Val Pro Glu Gln Met Leu Ala Gln Ala Arg Val Pro Leu Gly 20 25 30

Asp Glu Met Thr Val Cys Gln Cys Glu Ala Leu Ala Ser Pro Gly Pro 35 40 45

Pro Ala Pro His Met Glu Ala Glu Gly Pro Val Asp Val Arg His Val 50 55 60

Gln Trp Leu Met Gly Lys Leu Arg Phe Arg Trp Arg Gln Leu Val Ser 65 70 75 80

Ser Gln Gln Glu Gln Cys Ala Leu Leu Ser Lys Ile His Leu Tyr Thr 85 90 95 Arg Gly Cys His Ser Asp Gln Ser Leu Ser His Leu Ser Val Thr Glu 100 105 110

Ala Glu Met Leu Arg Gly Pro Arg Gly Arg Pro Ala Ala Ala Gly
115 120 125

Leu Trp Ser Val Arg Thr Ser Ala Trp Arg Leu Ser Trp Arg Gly Gly 130 135 140

Ala Leu Ser Trp Ser Ser Gly Gly Gly Trp Thr Arg Ser Trp Ala Pro 145 150 155 160

Val Pro Arg Arg Cys Leu Leu Gln Pro His Ser Pro Pro Pro Cys Pro 165 170 175

Gly Ser Pro Ser Ala Gly Val Ala Ser Trp Thr Trp 180 185

<210> 4132

<211> 16

<212> PRT

<213> Homo sapiens

<400> 4132

Leu Thr Gly Val Gly Leu Ser Ser Leu Cys Ser Trp Gln Cys Ser His

1 1 5 10 15

<210> 4133

<211> 34

<212> PRT

<213> Homo sapiens

<400> 4133

Met His Val Phe His Ser Ser Pro Leu Pro Val Tyr Ser Gly Gly Trp

1 5 10 15

Cys Ser Leu Leu Val Leu Leu Ser Leu Ala Glu Arg Thr Met Gly Ser 20 25 30

Ser Thr

<210> 4134

<211> 12

<212> PRT

<213> Homo sapiens

<400> 4134

His Leu Leu Phe Leu Leu Cys Phe Thr Cys Lys
1 5 10

<210> 4135

<211> 63

<212> PRT

<213> Homo sapiens

<400> 4135

Met Ser Trp Ala Pro Leu Gln Pro Gly Val Cys Ser Cys Gly Val Glu
1 5 10 15

Val Gly Gly Ala Gly Arg Asp Leu Gln Gly Ser Ser Cys Glu Gly Asp 20 25 30

Ser Ala Ala Thr Cys Arg Thr Leu Pro Leu Cys Leu Leu Pro Ala Trp
35 40 45

Asn Met Asp Val Met Ala Gly Ala Gly Thr Ala Val Leu Arg Ala 50 55 60

<210> 4136

<211> 318

<212> PRT

<213> Homo sapiens

<400> 4136

Met Ala Pro Trp Ala Glu Ala Glu His Ser Ala Leu Asn Pro Leu Arg 1 5 10 15

Ala Val Trp Leu Thr Leu Thr Ala Ala Phe Leu Leu Thr Leu Leu Leu 20 25 30

Gln Leu Leu Pro Pro Gly Leu Leu Pro Gly Cys Ala Ile Phe Gln Asp 35 40 45

Leu Ile Arg Tyr Gly Lys Thr Lys Cys Gly Glu Pro Ser Arg Pro Ala 50 55 60

Ala Cys Arg Ala Phe Asp Val Pro Lys Arg Tyr Phe Ser His Phe Tyr 65 70 75 80

Ile Ile Ser Val Leu Trp Asn Gly Phe Leu Leu Trp Cys Leu Thr Gln
85 90 95

Ser Leu Phe Leu Gly Ala Pro Phe Pro Ser Trp Leu His Gly Leu Leu 100 105 110

Arg Ile Leu Gly Ala Ala Gln Phe Gln Gly Gly Glu Leu Ala Leu Ser 115 120 125

Ala Phe Leu Val Leu Val Phe Leu Trp Leu His Ser Leu Arg Arg Leu 130 135 140

Phe Glu Cys Leu Tyr Val Ser Val Phe Ser Asn Val Met Ile His Val 145 150 155 160

Val Gln Tyr Cys Phe Gly Leu Val Tyr Tyr Val Leu Val Gly Leu Thr 165 170 175

Val Leu Ser Gln Val Pro Met Asp Gly Arg Asn Ala Tyr Ile Thr Gly

180 185 190

Lys Asn Leu Leu Met Gln Ala Arg Trp Phe His Ile Leu Gly Met Met
195 200 205

Met Phe Ile Trp Ser Ser Ala His Gln Tyr Lys Cys His Val Ile Leu 210 215 220

Gly Asn Leu Arg Lys Asn Lys Ala Gly Val Val Ile His Cys Asn His 225 230 235 240

Arg Ile Pro Phe Gly Asp Trp Phe Glu Tyr Val Ser Ser Pro Asn Tyr
245 250 255

Leu Ala Glu Leu Met Ile Tyr Val Ser Met Ala Val Thr Phe Gly Phe 260 265 270

His Asn Leu Thr Trp Trp Leu Val Val Thr Asn Val Phe Phe Asn Gln 275 280 285

Ala Leu Ser Ala Phe Leu Ser His Gln Phe Tyr Lys Ser Lys Phe Val 290 295 300

Ser Tyr Pro Lys His Arg Lys Ala Phe Leu Pro Phe Leu Phe 305 310 315

<210> 4137

<211> 36

<212> PRT

<213> Homo sapiens

<400> 4137

Met Asp Leu Lys Gly Arg Thr Lys Cys Ser Gln Tyr Phe Leu Leu Ser 1 5 10 15

Val Val Leu Leu Ser Met Gly Ile Val Gly Ser Ile Ile Glu Thr
20 25 30

Leu Gly Lys Leu 35

<210> 4138

<211> 109

<212> PRT

<213> Homo sapiens

<400> 4138

Met Glu Leu Thr Ile Phe Ile Leu Arg Leu Ala Ile Tyr Ile Leu Thr
1 10 15

Phe Pro Leu Tyr Leu Leu Asn Phe Leu Gly Leu Trp Ser Trp Ile Cys 20 25 30

Lys Lys Trp Phe Pro Tyr Phe Leu Val Arg Phe Thr Val Ile Tyr Asn 35 40 45

Glu Gln Met Ala Ser Lys Lys Arg Glu Leu Phe Ser Asn Leu Gln Glu

60 55 50

Phe Ala Gly Pro Ser Gly Lys Leu Ser Leu Leu Glu Val Gly Cys Gly 70 75

Thr Gly Ala Asn Phe Lys Thr Pro Ser Gln Lys Lys Lys Lys Lys

Arg Ser Arg Asp Arg Glu Thr Gly Ser His Cys Val Ala 100

<210> 4139

<211> 32

<212> PRT

<213> Homo sapiens

<400> 4139

Met Met Val Ile Ile Val Lys Lys Ile Leu Leu Ile Val Leu Arg Glu

Ser Thr Thr Leu Cys Gln Ile Pro Cys Phe Phe Leu Lys Pro Leu Lys

<210> 4140

<211> 73

<212> PRT

<213> Homo sapiens

<400> 4140

Met Ala Asn Ile His Trp Ala Ala Gln Thr Val Leu Leu Pro His 10

Leu Ala Pro Ala Phe Trp Gly Pro Ala Ala His Glu Leu Ile Pro Phe 25 20

Gln Ala Ser Leu Gly Tyr Ile His Pro Leu Trp Leu Leu Thr His Gly 40

Val Lys Pro Arg Ala His Phe Ser Tyr Gln Pro Gly Leu Gly His Ile 55

Tyr Val Met Leu Leu Pro Ser Phe Thr 70

<210> 4141

<211> 34

<212> PRT

<213> Homo sapiens

Met Ile Ala Gln Leu Gln Ser Pro Cys Ser Phe Tyr Leu Ile Met Leu 5

Ala Leu Phe Ser Met Ser Val Trp Thr His Ile Lys Thr Pro Ser Cys
20 25 30

Thr Leu

<210> 4142

<211> 69

<212> PRT

<213> Homo sapiens

<400> 4142

Met Ala Ser Leu Trp Leu Val Ser Trp Asp Leu Leu Leu Leu Ser 1 5 10 15

His Asp Cys Arg Leu Ala Arg Ile Trp Leu Trp Met Ala Trp Thr Gln 20 25 30

Ala Ser Arg Ser Ser Tyr Val Val Ala Ser Lys Cys His Val Trp Pro 35 40 45

Val Ala Asp Thr Ile Ile Lys Leu Leu Val Leu Phe Phe Arg Cys 50 55 60

Phe Phe Leu Leu Ala 65

<210> 4143

<211> 98

<212> PRT

<213> Homo sapiens

<400> 4143

Met Leu Ala Met Lys Leu Leu Val Leu Trp Thr Val Val Cys Pro Gln
1 5 10 15

Leu Val Phe Leu Gln Lys Gln Leu His Lys Thr Thr Pro Asn Leu Pro 20 25 30

Gln Ser Ser Gln Glu Leu Val Ser Asp Gln Arg Val Arg Gln Ser Pro
40 45

Arg Pro Gln Lys Leu Leu Phe Leu Pro Ala Pro Arg Gln Phe His Arg 50 55 60

Leu Pro Ser Arg Gly Arg Thr Thr Ala Lys Val Ser Ser Ser Thr Ser 65 70 75 80

Gly Thr Lys Trp Ser Trp Gly Leu Cys Tyr Gly Thr Ser Leu Thr Glu
85 90 95

Cys Gln

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<210> 4144
<211> 38
<212> PRT
<213> Homo sapiens
<400> 4144
Met Ser Val Cys Val Leu Tyr Leu Gln Ser Leu Val Ile Val Pro Tyr
                                     10
Ile Thr Cys Lys Gln Ile Leu Tyr Phe Ile Leu Ala Tyr Leu Thr Glu
His Ile Thr Gln Lys Lys
        35
<210> 4145
<211> 46
<212> PRT
<213> Homo sapiens
<400> 4145
Met Pro Gly Lys Gln Asp Trp Leu Phe Leu Gln Lys Asn Arg Thr Val
Pro Tyr Ile Trp Pro Val Gln Leu Val Tyr Leu Met Pro Met Phe Leu
Leu Arg Val Met His Ala Tyr His Leu Phe Gln Arg Arg Asp
                             40
         35
<210> 4146
<211> 38
<212> PRT
<213> Homo sapiens
<400> 4146
Met Cys His His Thr Gln Leu Ser Ser Phe Leu Leu Asn Phe Phe Ser
                 5
Glu Phe Ser Thr Leu Leu Val Leu Thr Ala Ile Ser Met Phe Cys Phe
                                  25
              20
Ser Leu Val Thr Tyr Ala
          35
 <210> 4147
 <211> 23
 <212> PRT
 <213> Homo sapiens
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Ser Ala Ile Ser Val Phe Asn

5

10

Met Phe Val Ala Val Phe Leu Phe Cys Phe Val Phe Cys Lys Phe His

4

<210> 4148

20

180

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<211> 217
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<222> (156)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (196)
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<220>
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Met Leu Pro Val Val Trp Ile Ile Leu Cys Ser Ser Ala Gln Phe Pro
His Leu Trp Lys Leu His Ser His Leu Ala Gln Met Ser His Ser Ser
Leu Leu Pro Leu Glu Asn Arg Ser Leu Ser Leu Cys Arg Thr Arg Cys
Ser Asp Pro Leu Ser Cys Thr Leu Ala Pro Phe Leu Pro Pro Thr Val
                          55
Ser Leu Ser Thr Leu Ser Ser Ala Leu Gln Ser Ser Phe Cys Ser Phe
                      70
Phe Leu Arg Arg Gln Cys Arg Pro Ser Cys Ser Pro Val Pro Gly Val
His Ile Ser Asn Phe Gly Ser Ala Ser Trp Thr Cys Pro Cys Gly Cys
             100
Leu Ala Ile His Ser Asn Pro Ala Ser Pro Lys Gly Met Ile Leu Pro
                             120
 Tyr Phe Leu Leu Thr Gln Leu Cys Gly Gln Ser Ser Arg Thr Asn Gly
                         135
     130
 Ser Lys Leu Pro Pro Asn Thr His Pro Arg Leu Xaa Ala Trp Ala Pro
                     150
 Leu Ala Ser Pro Arg Ala Ala His Ile Lys Val Gln Leu Gly Ser Glu
                 165
 Leu Leu Gln Glu Ala Ser Pro Ala Leu Leu Cys Arg Arg Thr Leu Leu
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Leu His Thr Xaa Ser Pro Ile Leu Trp Gln Ala Leu Leu Tyr Pro Gln
195 200 205

Ala Ser Xaa Gln Thr Ser Leu Thr Cys 210 215

<210> 4149

<211> 35

<212> PRT

<213> Homo sapiens

<400> 4149

Met Met Ser Thr Ser Gln Thr Ala Pro Leu Trp Cys Leu Trp Pro Pro 1 5 10 15

Ser Arg Met Thr Leu Ala Val Ser Leu Ser Pro Ala Ser Arg Arg Arg 20 25 30

Gly Ser Arg

<210> 4150

<211> 40

<212> PRT

<213> Homo sapiens

<400> 4150

Met Lys His Phe Leu Phe Phe Ser Phe Leu Ala Phe Leu Ser Leu Tyr 1 5 10 15

Leu Met Tyr Thr Trp Lys Leu Gln Gly Leu Ser Thr Gly His Ala Ser 20 25 30

Leu Tyr Arg Ser His Leu Cys Leu
35 40

<210> 4151

<211> 35

<212> PRT

<213> Homo sapiens

<400> 4151

Met Glu Asn Met Tyr Trp Gly Pro Leu Gly Leu Thr Ser Glu Ile Val 1 5 10 15

Leu Phe Ile Leu Leu His Leu Ala Phe Gln Leu Met Glu Lys Tyr Lys
20 25 30

Phe Lys Phe

35

<210> 4152

<211> 34

<212> PRT <213> Homo sapiens

<400> 4152

Gln Lys Leu Leu Phe Tyr Ala Gln Ser Asp Ile Glu Ser Phe His 1 5 10 15

Leu Phe Leu Ser Pro Leu Leu Leu Leu Ser Asp Met Leu Leu Gln Phe 20 25 30

Leu Thr

<210> 4153

<211> 44

<212> PRT

<213> Homo sapiens

<400> 4153

Gly Leu Gly Ser Gly Glu Trp Phe Pro Ala Leu Gln Leu Met Trp Leu 1 5 10 15

Leu Arg Gly Thr Gln Ala Leu Phe His Tyr Leu Pro Asn Asn Gly Gly 20 25 30

Pro Val Phe Asn Cys Ser Thr Thr Thr Gln Asn Thr 35 40 '

<210> 4154

<211> 31

<212> PRT

<213> Homo sapiens

<400> 4154

Met Leu Leu Arg Val Arg Val Gly Ile Ile Cys His Leu Glu Phe 1 5 10 15

Leu Cys Leu Ala Asp Leu Ser Ser Asp Leu Pro Ile Tyr Gln Arg 20 25 30

<210> 4155

<211> 46

<212> PRT

<213> Homo sapiens

<400> 4155

Met Ser Pro Gly Gly Phe Leu Leu Leu Thr Ser Leu Gly Pro Thr Ile
1 5 10 15

Gly Phe Leu Ala Gly Leu Arg Ser Leu Arg Glu Val Ala Ile Ser Lys 20 25 30

Arg Lys Asp Phe Tyr Leu Arg Leu Ser Gly Lys Glu Ala Glu 35 40 45

<210> 4158 <211> 48 <212> PRT <213> Homo sapiens <400> 4158

Leu Met Val Leu Ile Leu Phe Met Gln Pro Val Pro Phe Val His Ile

Met Cys Val Gln Lys Arg Gln Leu Pro Ile Gly Pro Arg Ser His Phe

Ser Trp Leu Val Asn Lys Ala Thr Ser Asp Leu Phe Phe Lys Asp Leu 35 40 45

<210> 4159 <211> 37 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (2) <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4159

Met Xaa Phe Trp Ala Ala Met Gly Leu Leu Glu His Trp Cys Val His

Leu His Ser Met Cys Trp Asn Pro Gln Glu Ser Gly Gly Ala His Ile

Gln Gly Lys Val Ser 35

<210> 4160

<211> 37

<212> PRT

<213> Homo sapiens

<220>

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<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4160

Met Xaa Phe Trp Ala Ala Met Gly Leu Leu Glu His Trp Cys Val His

Leu His Ser Met Cys Trp Asn Pro Gln Glu Ser Gly Gly Ala His Ile

Gln Gly Lys Val Ser 35

<210> 4161

<211> 59

<212> PRT

<213> Homo sapiens

<400> 4161

Met Leu Ala Arg Leu Arg Gln Val Ser Thr Leu Cys Cys Leu Ser Leu

Ala Gln Thr Gly His Phe Val Trp Leu Phe Pro Ser Thr Arg Pro Gln

Trp Glu Gln Ala Ser Leu Pro Gln Ala Ser Glu Thr Asp His Pro Ile

Pro Pro Ser Pro Val Asn Leu Pro Leu Phe Pro 50

<210> 4162

<211> 24

<212> PRT

<213> Homo sapiens

<220> <221> SITE

<400> 4162 Leu Phe His Ile Thr Glu Trp Asp Leu Cys Phe Glu Glu Thr Asn Pro Thr Asp Thr Leu Ile Leu Asp Phe <210> 4163 <211> 56 <212> PRT <213> Homo sapiens <400> 4163 Met Lys Ser His Ser Val Trp Leu Pro Thr Leu Tyr Cys Ala Val Val Lys Val Tyr Leu Cys Val Gly Cys Ser His Pro Leu Val Ser Thr Gly Ile Gly Pro Arg Ser Leu His Arg Ser Pro Ala Gly Met Pro Val Ser His Ser Ala Pro Cys Lys Thr His <210> 4164 <211> 52 <212> PRT <213> Homo sapiens <400> 4164 Met Ile Leu Met Ser Leu Leu Pro Ile Phe Trp Leu Val Thr Pro Leu 10 His Ile Ile Ser Ser Pro Phe Val Leu Cys Val Leu Trp Gly Val Cys Val Cys Val Cys Val Val Gly Glu Gly Cys Phe Arg Asn 35 Glu Arg Glu Lys 50 <210> 4165 <211> 477 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (19) <223> Xaa equals any of the naturally occurring L-amino acids

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<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<222> (73)
<223> Xaa equals any of the naturally occurring L-amino acids
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<222> (141)
<223> Xaa equals any of the naturally occurring L-amino acids
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<222> (181)
<223> Xaa equals any of the naturally occurring L-amino acids
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<221> SITE
<222> (341)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 4165
Met Ala Leu Arg His Ser Ala Cys Arg Arg Phe Ser Leu Ala Glu Phe
  1
Ala Gln Xaa Gln Ala Arg Ala Arg His Glu Lys Leu Arg Gln Arg Leu
                                  25
Lys Glu Glu Lys Leu Glu Met Leu Gln Trp Lys Leu Ser Ala Ala Gly
          35
 Val Pro Gln Ala Glu Ala Gly Leu Pro Pro Val Val Asp Ala Ile Xaa
 Asp Ala Ser Val Glu Glu Asp Leu Xaa Val Ala Xaa Ala Gly Gly Arg
  65
 Leu Glu Glu Val Ser Phe Leu Gln Pro Xaa Pro Ala Arg Arg Arg Arg
 Ala Leu Leu Arg Ala Ser Gly Val Arg Arg Ile Asp Arg Glu Glu Xaa
             100
 Arg Glu Leu Gln Ala Leu Arg Gln Ser Arg Glu Asp Cys Gly Cys His
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		115					120					125			
Cys	Asp 130	Arg	Ile	Сув		Pro 135	Glu	Thr	Cys	Ser	Cys 140	Xaa	Leu	Ala	Gly
Ile 145	Lys	Cys	Gln		Asp 150	His	Thr	Ala	Phe	Pro 155	Cys	Gly	Cys	Cys	Arg 160
Glu	Gly	Cys	Glu	Asn 165	Pro	Met	Gly	Arg	Val 170	Glu	Phe	Asn	Gln	Ala 175	Arg
Val	Gln	Thr	His 180	Xaa	Ile	His	Thr	Leu 185	Thr	Arg	Leu	Gln	Leu 190	Glu	Gln
Glu	Ala	Glu 195	Ser	Phe	Arg	Glu	Leu 200	Glu	Ala	Pro	Ala	Gln 205	Gly	Ser	Pro
	210		Gly			215					220				
225			Asn		230					235					240
			Ser	245					250					255	
			Pro 260					265					270		
		275					280					285			
Asp	Phe 290		G1y	Glu	Glu	Glu 295		Glu	Glu	Glu	300	Ser	Val	Gly	Asn
305			Leu		310					315	•				320
			Gly	325					330)				333	•
			Gly 340					345)				330	•	
		355					360	l				363	•		
	370)	Pro			375	5				381	J			
385	i		ı Ser		390)				39	5				400
Asp	ту1	s Sei	r Leu	405) His	₹ Tyr	Thi	41	r Gli	n Ly:	s Vai	l Sei	r Ası 41!	o Ser 5
			n Ile 420)				425	5				431	U	
Pro	Gly	y Asj 43	o Ala 5	a Ser	Sei	Cy:	s Phe 44(e Let	a Gl	u Se	r Le	u Me 44	t Gl _i 5	y Ph	e Sei

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Glu Pro Ala Ala Glu Ala Leu Asp Pro Phe Ile Asp Ser Gln Phe Glu
                        455
Asp Thr Val Pro Ala Ser Leu Met Glu Pro Val Pro Val
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Gly Gly Leu Trp Leu Ser Leu Arg
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Ser Leu
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Leu Ile Phe Ile Val Phe His Thr Ser Ser Gln Ser Leu Pro Gly Thr
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Trp
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<211> 18
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<213> Homo sapiens
<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids
Met Pro Gly Phe Xaa Trp Phe Val Phe Val Phe Val Phe Leu Ser Asn
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 Pro Ala
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<210> 4170 <211> 629 <212> PRT

<213> Homo sapiens

<400> 4170
Met Cys Phe Ile Pro Leu Val Cys Trp Ile Val Cys Thr Gly Leu Lys
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Gln Gln Met Glu Ser Gly Lys Ser Leu Ala Gln Thr Ser Lys Thr Thr 20 25 30

Thr Ala Val Tyr Val Phe Phe Leu Ser Ser Leu Leu Gln Pro Arg Gly
35 40 45

Gly Ser Gln Glu His Gly Leu Cys Ala His Leu Trp Gly Leu Cys Ser 50 55 60

Leu Ala Ala Asp Gly Ile Trp Asn Gln Lys Ile Leu Phe Glu Glu Ser 65 70 75 80

Asp Leu Arg Asn His Gly Leu Gln Lys Ala Asp Val Ser Ala Phe Leu 85 90 95

Arg Met Asn Leu Phe Gln Lys Glu Val Asp Cys Glu Lys Phe Tyr Ser 100 105 110

Phe Ile His Met Thr Phe Gln Glu Phe Phe Ala Ala Met Tyr Tyr Leu 115 120 125

Leu Glu Glu Glu Lys Glu Gly Arg Thr Asn Val Pro Gly Ser Arg Leu 130 135 140

Lys Leu Pro Ser Arg Asp Val Thr Val Leu Leu Glu Asn Tyr Gly Lys 145 150 155 160

Phe Glu Lys Gly Tyr Leu Ile Phe Val Val Arg Phe Leu Phe Gly Leu 165 170 175

Val Asn Glu Glu Arg Thr Ser Tyr Leu Glu Lys Lys Leu Ser Cys Lys 180 185 190

Ile Ser Gln Gln Ile Arg Leu Glu Leu Leu Lys Trp Ile Glu Val Lys 195 200 205

Ala Lys Ala Lys Lys Leu Gln Ile Gln Pro Ser Gln Leu Glu Leu Phe 210 215 220

Tyr Cys Leu Tyr Glu Met Gln Glu Glu Asp Phe Val Gln Arg Ala Met 225 230 235 240

Asp Tyr Phe Pro Lys Ile Glu Ile Asn Leu Ser Thr Arg Met Asp His 245 250 255

Met Val Ser Ser Phe Cys Ile Glu Asn Cys His Arg Val Glu Ser Leu 260 265 270

Ser Leu Gly Phe Leu His Asn Met Pro Lys Glu Glu Glu Glu Glu

595

280 285 275 Lys Glu Gly Arg His Leu Asp Met Val Gln Cys Val Leu Pro Ser Ser 300 295 Ser His Ala Ala Cys Ser His Gly Leu Val Asn Ser His Leu Thr Ser 315 Ser Phe Cys Arg Gly Leu Phe Ser Val Leu Ser Thr Ser Gln Ser Leu Thr Glu Leu Asp Leu Ser Asp Asn Ser Leu Gly Asp Pro Gly Met Arg Val Leu Cys Glu Thr Leu Gln His Pro Gly Cys Asn Ile Arg Arg Leu Trp Leu Gly Arg Cys Gly Leu Ser His Glu Cys Cys Phe Asp Ile Ser Leu Val Leu Ser Ser Asn Gln Lys Leu Val Glu Leu Asp Leu Ser Asp Asn Ala Leu Gly Asp Phe Gly Ile Arg Leu Leu Cys Val Gly Leu Lys 410 His Leu Leu Cys Asn Leu Lys Lys Leu Trp Leu Val Ser Cys Cys Leu Thr Ser Ala Cys Cys Gln Asp Leu Ala Ser Val Leu Ser Thr Ser His 440 Ser Leu Thr Arg Leu Tyr Val Gly Glu Asn Ala Leu Gly Asp Ser Gly Val Ala Ile Leu Cys Glu Lys Ala Lys Asn Pro Gln Cys Asn Leu Gln 470 Lys Leu Gly Leu Val Asn Ser Gly Leu Thr Ser Val Cys Cys Ser Ala 490 Leu Ser Ser Val Leu Ser Thr Asn Gln Asn Leu Thr His Leu Tyr Leu 500 Arg Gly Asn Thr Leu Gly Asp Lys Gly Ile Lys Leu Leu Cys Glu Gly Leu Leu His Pro Asp Cys Lys Leu Gln Val Leu Glu Leu Asp Asn Cys 530 Asn Leu Thr Ser His Cys Cys Trp Asp Leu Ser Thr Leu Leu Thr Ser 555 550 Ser Gln Ser Leu Arg Lys Leu Ser Leu Gly Asn Asn Asp Leu Gly Asp 570 565 Leu Gly Val Met Met Phe Cys Glu Val Leu Lys Gln Gln Ser Cys Leu 585 Leu Gln Asn Leu Gly Leu Ser Glu Met Tyr Phe Asn Tyr Glu Thr Lys 600

Ser Ala Leu Glu Thr Leu Gln Glu Glu Lys Pro Glu Leu Thr Val Val 610

Phe Glu Pro Ser Trp 625

<210> 4171
<211> 34
<212> PRT
<213> Homo sapiens

<400> 4171
Met Tyr Val Cys Ala Cys Val Phe Val Cys Ala Tyr Cys Val His Met 1 5

Cys Val Ser Arg Leu Cys Val Ser Phe Trp Gly Met Cys Val Ser Val

Leu Leu

<210> 4172
<211> 16
<212> PRT
<213> Homo sapiens
<400> 4172
Met Thr Glu Leu Leu Phe Phe Ser Pro Leu Tyr Gln Glu Val Asn
1 5 10 15

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<210> 4173
<211> 2
<12> PRT
<213> Homo sapiens
<400> 4173
Met Ser
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<210> 4174
<211> 15
<212> PRT
<213> Homo sapiens
<400> 4174
met Ser Asn Trp Trp Arg Trp Gly Leu Leu Trp Pro Pro Gln
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<210> 4175 <211> 60 <212> PRT

<213> Homo sapiens

<400> 4175

Val Ile Thr Met Ala Leu Ala Ala Val Val Thr Glu Val Ala Leu Ala 1 5 10 15

Asn Leu Asn Val Val Glu Thr Val Ala Gly Val Thr Asn Gln Met Lys 20 25 30

Met Ile Gly Gln Asn His Ser His Gln Val Asn Ala Trp Asn Ser Lys 35 40 45

Phe Leu Lys Cys Met Leu Leu Val Met Lys Pro Tyr 50 55 60

<210> 4176 <211> 47

<212> PRT

<213> Homo sapiens

<400> 4176

Pro Thr Leu Thr Ala Pro Thr Leu Ala Leu Leu Leu Pro Lys Ile 1 5 10 15

Ser Cys Leu Leu Thr Ser Thr His Pro Arg Thr Gln Gly Ser Arg Ala 20 25 30

His Phe Pro Arg Ala Trp Arg Thr Pro Gln Thr Pro Ser Ser Met 35 40 45

<210> 4177

<211> 27

<212> PRT

<213> Homo sapiens

<400> 4177

Met Ala Ser Thr Ser Arg Trp Thr Arg Trp Ala Leu Leu Leu Ala Ser
1 5 10 15

Ser Ser Ala Trp Pro Asn Ser Thr Ala Pro Ser 20 25

<210> 4178

<211> 51

<212> PRT

<213> Homo sapiens

<400> 4178

Met Ala Phe Leu Ser Leu Phe Pro Leu Ser Ser Leu Phe Ser His Phe 1 5 10 15

Ser Leu Phe Lys Thr Cys Leu Gln Ser Thr Gln Asn Arg Val Asp Lys

Ser Leu Ser Ser Pro Asp Phe Ser Trp Pro Arg Asn Glu Arg Leu Phe 35 40 45

Ser Lys Pro 50

<210> 4179 <211> 30

<212> PRT <213> Homo sapiens

<400> 4179

Ile Ser Met Phe Ser Leu Leu Val Lys Met Cys Val Gln Met Thr Val 1 5 10 15

Gly Arg Asp Ala Arg Cys Lys Phe Thr Ser Leu Pro Ser Leu 20 25 30

<210> 4180

<211> 9

<212> PRT

<213> Homo sapiens

<400> 4180

Met Gly Thr Arg Leu Gly Asp Phe Cys
1 5

<210> 4181

<211> 31

<212> PRT

<213> Homo sapiens

<400> 4181

Met Leu Cys Val His Phe Ser Ala Arg Glu Ser Val Ala Phe Leu Cys
1 5 10 15

Leu Ser Lys Gly Ser Thr Val Gln Asn Ser Leu Ala Pro Leu Thr 20 25 30

<210> 4182

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4182

Ile Leu Ala Thr Pro Gln Pro Leu Val Val Pro His Ala His Phe Ala 1 5 10 15

Glu Asp Glu Pro Gln Val Leu Ile Arg Cys Trp Asn Lys Pro Pro Xaa 20 25 30

Leu Ser Glu Ser Pro Thr Asn Leu Glu Phe Glu Thr His Ser Leu Ala 35 40 45

Arg Leu Asn Gly Leu Cys Ser Ala Ile Lys Arg Leu Leu Gly Cys Tyr 50 55 60

Pro Trp Gln Gly 65

<210> 4183

<211> 75

<212> PRT

<213> Homo sapiens

<400> 4183

Met Ser Ala Leu Pro Ser Pro Leu Cys Pro Phe Cys Ser Val Leu Leu 1 5 10 15

Leu Pro Ser Pro Pro Ala Arg Val Pro Gly Leu Cys Leu Leu Phe Leu 20 25 30

Ser Leu Pro Pro Leu Thr Pro Pro Ser Thr Val Gly Thr Cys Lys Pro 35 40 45

Gln Gly Cys Ala Pro Ser Trp Ser Pro Ile His Pro Arg Asn Val Ser 50 60

Cys Ser Ile Tyr Lys Gly His Gly Asp Phe Gly
65 70 75

<210> 4184

<211> 41

<212> PRT

<213> Homo sapiens

<400> 4184

Met Thr Tyr Leu Leu Phe Leu Ser Glu Leu Asp Thr Leu Cys Pro Gly 1 5 10 15

Gln Pro Cys Pro Trp Ala Ala Thr Ala His Gln Ser Trp Glu Glu Ala 20 25 30

Gly Pro Gly Gly Leu Gly Arg Arg Gln
35 40

<210> 4185

<211> 12

<212> PRT

<213> Homo sapiens